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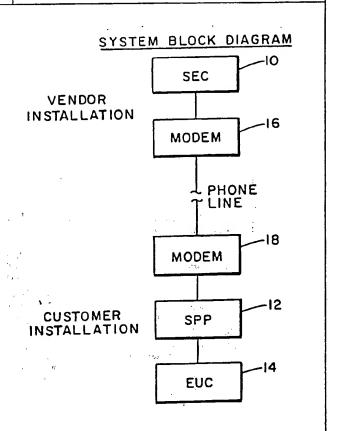
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(54) Title: SOFTWARE DISTRIBUTION SYSTEM

(57) Abstract

A system for distributing copies of computer software provides inherent protection against unauthorized copy of the software. The software distribution system includes three computers: a host (10), a software protection computer (12) and an end-user computer (14). The host computer (10) is under the control of the vendor, and the software protection computer (12) and the enduser computer (14) are located at the customer installation. The software is encrypted in the host computer (10) and then transferred to and stored in the end-user computer (14) after it is registered in the software protection computer (12). The transferred software is encrypted using a unique encryption key. Each copy of a software package generated by the host computer (10) is a unique encrypted version of that software package. When this unique encrypted version of the software package is run on the end user's computer (14) and encounters an encrypted portion of itself, it will suspend normal execution and transfer the encrypted portion to the software protection computer (12). This computer (12) will then decrypt the encrypted portions of the code and return the decrypted portion of the code to the end-user computer (14) where that code is itself executed or allows execution of the program of which it is a part to continue.



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SOFTWARE DISTRIBUTION SYSTEM

BACKGROUND OF THE INVENTION

This invention relates to electronic software distribution and more particularly to a software distribution system in which the distributed software is protected against copying.

Over the past few years, the growth of the software industry has been enormous, and as more and more people purchase personal computers, the industry is expected to continue to grow rapidly. For the most part, purchased software changes hands from a mail order or retail vendor to a customer in some physical form such as a tape, disk or even a printed listing of code. Such physical distribution has resulted in a number of problems with respect to both the mode of distribution and customer servicing as well as with the rights of the creators and publishers of the software which is sold. Principal among the problems is that a large percentage of the software which is sold ends up being illegally copied. Frequently, a purchaser of software will "lend" his copy of the software to a friend who makes a copy for himself. The most obvious result of this unauthorized copying is that the profits of the creator and publisher of the software (who probably have a copyright in the software) are greatly reduced. To make up for these lost profits, the price of the software is maintained at a high level. This sustained high price unfortunately produces an even greater incentive to illegally copy.

Copyright protection, which does provide the creator and publisher of software with legal recourse against the person making the unauthorized copies has, in fact, afforded little or no relief from the problem of copied software. As the copies are often made by individuals for their own use, large-scale policing



of such copying is virtually impossible. On rare occasions, a copier having a large copy resale operation can be caught, but by the time he is caught, many unprotected copies usually already have been distributed. Furthermore, the advent of software rental shops has further limited the copyright owner's ability to protect his rights in the software he owns.

Another problem frequently encountered with software sold over the counter is the need to later distribute revised copies to add new features or to fix errors or "bugs" present in the software. These bugs appear despite rather substantial testing that is performed before a software package is put on the market. These bugs are particularly prevalent in software which has recently entered the market. In order to correct any errors which do appear in the software, a software publisher must recall the disk or tape which contains the faulty software. The problem with correcting errors in this manner is that the software is cut of the hands of the purchaser for a number of days, if not weeks, while the exchange and correction take place. Finally, the cumbersome nature of this system discourages the user's updating of his software which often leaves a bad impression of the software publisher's products in the field.

In order to combat the illegal copying of software, the software industry has taken a number of precautions. The various approaches fall under three categories: media protection against copying, use of read-only media and processor serialization.

Media protection against copying refers to making some unique version of the medium containing the software. One type of media protection involves the use of variable-pattern diskettes. Variable-pattern diskettes, however, do not offer a practical solution to the software copying problem since these diskettes depend on a soft format diskette drive and they are



vulnerable to memory copy if the entire program is loaded at once. Furthermore, such variable-pattern diskettes can only be used in a small percentage of the drives currently on the market. Therefore, the software distributed on such diskettes can only be offered to a rather small percentage of the market. Finally, physical alteration of the media, usually by forcing hard errors on the media checked for by the software itself, has been used. This method fails in that hardware checks in the software can be located and neutralized in the software itself.

Another type of media protection against copying involves the use of an operating system override. Such a protection scheme depends on a rather unique operating system which prevents copying of diskettes. The use of an operating system override, however, has not proven to be the answer to the problem either since the altered operating system must be tailored to the particular controller chip of the computer on which it is operating, and the operating system override cannot support use with standard operating systems currently on the market. In addition, any operating system override is vulnerable to an algorithmic solution or "cracking". One variation on the operating system override scheme has the software employ features of the hardware, circumventing the operating system, to check areas on the storage media which the operating system cannot reach. This method can also be defeated by being neutralized in the software itself.

A third type of media protection against copying involves the use of segmented programs in conjunction with variable-pattern diskettes and/or an operating system override. The use of such segmented programs of necessity requires some type of a segment loader to read in the various segments when required. This results in very slow response from a computer utilizing such segmented programs. Furthermore, any loader



routine for reading in segmented programs is vulnerable to algorithmic solution. In addition to the problems stated above, these media protection devices have generally been perceived as being user-unfriendly, and since it is not possible to make a legitimate backup copy, such protection schemes are not in wide use.

Another possible solution to the problem of software copying involves the use of read-only media to store the software. Among the read-only type media which may be used are ROMs and laser cards. The problem with the use of such read-only media is that any software update can only be done by replacing the media itself, and therefore any software update becomes rather expensive. Moreover, there is no legitimate backup for any media failure since a backup copy cannot be created. Finally, with the use of read-only media, added expenses are incurred by the user, since a particular type of reader for that media must be purchased at great expense to the user (with the exception of ROMS) with that user gaining no significant additional value.

The third type of protection, processor serialization, has also not proven to be a very effective means of protecting software. The reason for the ineffectiveness of this mode of protection is that processor serialization requires either the compliance of all computer manufacturers or publisher—supplied hardware which comes with the software package to provide the serialization. In addition, this protection technique adds no value to the computer to compensate for the cost, and there is no benefit to the manufacturer for complying with a processor serialization scheme. Finally, since serialization involves a passive device, it is easy to defeat the serial number check in the software itself.



In light of the problems encountered with the above-described currently existing protection schemes, it appears that illegal sales or copying cannot be stopped altogether; it can only be made more difficult. The ultimate goal of any protection scheme therefore is to make the cost of cracking the protection scheme comparable to or preferably greater than the cost of purchasing the software. In order to make cracking costs greater than the purchase price of the software, the protection scheme must not employ an algorithmic approach which can be easily solved. In addition, any add-on hardware must be of a low cost nature, and must be compatible with the machines of a majority of the major computer manufacturers.

Therefore, it is a principal object of the present invention to provide a software distribution system which can protect software from being copied.

Another object of the present invention is to provide a software distribution system in which software is encrypted using a virtually indecipherable encryption key.

Still another object of the present invention is to provide a software distribution system in which each copy of the distributed software is protected by a unique encryption key.

Yet another object of the present invention is to provide a software distribution system in which each copy of a program is organized in a unique pattern to frustate comparison.

A further object of the present invention is to create a software distribution system in which revisions in software can be easily distributed.

SUMMARY OF THE INVENTION

These and other objects of the invention are achieved



by an electronic software distribution system in which distributed program copies are uniquely associated with specific hardware to which the end user's computer must be connected. A central computer facility operated, for example, by a software vendor, contains storage capacity for a library of available programs. Auxiliary Software Protection Processors" (SPP) are issued to the users. Each SPP is electrically connected to the user's computer and electronically interconnected with the central facility, for example, via a modem-interfaced phone link. Each SPP is equipped with a unique number code referred to as the package encryption key (PEK) which is recorded at the central facility. The PEK can be factory loaded or down-loaded (via the communications link) to the SPP from the central facility. The software distribution system of the present invention embodies two distinct unique operations: (1) software preparation and delivery and (2) software execution in the user's computer.

In the preparation/delivery phase, when a user orders software from the central facility, the facility first looks up the PEK for that user's SPP and selects an available registration index number (RIN) which will be unique for that user's copy of the software package. The central facility then prepares the unique user copy of the ordered program by encrypting passages of the program selected by the central facility in a manner such that a given algorithm operating on a key specified by a combination of the PEK and RIN and an encrypted passsage will yield the original unencrypted version ("plaintext") of such passage. The encrypted version of the ordered program (which is encrypted only in a subset of its parts or modules) is then transmitted to the user along with a control block containing the The control block is stripped off and the RIN stored in the user's SPP while the transmitted program copy (with its encrypted passages) is stored in the user's computer system on user-selected media.



In the software execution phase of operation when the user desires to run the program, the initial instructions in the program check the specific RIN in the SPP associated with that program copy. If the RIN is okay, normal execution proceeds until an encrypted passage is encountered. The user's computer then executes a call to the SPP in which the encrypted passage is decrypted algorithmically in the SPP by use of the key specified by the PEK and RIN. The decrypted passage is returned to the user's computer. If the passage is properly decrypted, normal program execution resumes until another encrypted passage is encountered. In the preferred embodiment, these passages may actually be software instructions as well as data.

Time-limited authorization is implemented by means of a real-time clock or counter embedded in the SPP which, for example, erases or alters the software-specific RIN after a trial period or rental term. Since the unique user copy of the selected software cannot run properly unless an SPP with the correct PEK and RIN is engaged with the user's computer system, the software package would therefore be disabled.

These and other features and objects of the present invention will be more fully understood from the following detailed description which should be read in light of the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a system block diagram showing the various components involved in the transmission of information in the system of the present invention.

Fig. 2 is a block diagram showing the communication interaction of the various components of the system at the user's location.



Fig. 3 is a circuit diagram of the software protection processor of Fig. 2.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The software distribution system of the present invention provides a means for a vendor to sell software to a vendee while providing protection against copying that software. As shown in Fig. 1, the software distribution system of the present invention includes three computers - a host computer called the Software Encryption Computer (SEC) 10, a software protection computer designated the Software Protection Processor (SPP) 12 and the End-User Computer (EUC) 14. Of these computers, the SEC 10 is owned and operated by the vendor while the SPP 12 and the EUC 14 are owned by the customer and located at a customer installation. The software which is purchased by the customer is transmitted from the SEC through a communication system such as phone lines, a local area network or a cable In the preferred embodiment, the software is received by the SPP 12 which transfers the software to the EUC 14 for storage. When the software is transmitted over phone lines, a modem 16 at the vendor installation and a modem 18 at the customer installation are required for sending and receiving the software.

The word "encrypt" is used in this application to indicate a process of taking original code and disguising it so that it is unintelligible. On the other hand, the word "decrypt" is used in this application to describe the reverse process, namely transforming disguised, unintelligible code back to its original form or "plaintext" in the vernacular of cryptography.

The SEC 10 is a central computer facility located at a vendor site or operated under the control of the vendor. The SEC 10 maintains a library of software available for distribution.



Each time a software sale is made, the SEC 12 encrypts the copy of the software before transmitting it to the vendee or user. Each copy of software is encrypted in a unique fashion. This is true even if two copies of the same piece of software are transmitted to the same user.

Once the copy of software has been encrypted in preparation for sale, the copy of the software is transmitted by the SEC 10 via the vendor modem 16 to the vendee modem 18 which is connected to the SPP 12. The SPP 12 is a self-contained decryption computer capable of retaining unique control information for each software package purchased by a customer. The SPP 12 has two major functions. The first of these is to confirm the customer's validity and to register control information for any software package sold to that customer. The second is to decrypt any encrypted portions of software received from the EUC 14 which permits that software program to continue operation in the EUC 14. Hence, unless the SPP 12 is engaged, software distributed by the distribution system will not operate in the EUC 14. Although the SPP 12 has been described as communicating with the SEC 10 through a modem 18, the SPP 12 may also contain or interface with communication devices such as a local area network or a cable system. The SPP 12 may also be contained within the user's EUC 14 as well.

The third computer in the preferred embodiment of the present invention, the EUC 14, is a customer owned or operated computer. This computer may be a home computer, personal computer, small business computer or a large main frame computer. All software purchased by a customer is designed for operation on his particular EUC 14.

In operation, before any software may be sold, the customer must purchase a modem/SPP unit and its associated



communication software in order to make use of the software distribution system of the present invention. Each SPP 12 has its own unique Package Encryption Key (PEK). The purchased modem/SPP unit is then connected to the customer's EUC 14, and it is simply left in place until the customer wants to purchase software. In the preferred embodiment of the system of the present invention, the customer wishing to purchase software connects his modem/SPP with the system's SEC 10 via telephone. The modem/SPP 12 passes its unique identification code (prefereably in encrypted form) to the SEC 10 to confirm the identification and the legitimate status of the customer. The SEC 10 then generates lists of available software packages along with prices and terms of sale. These prices and terms of sale (usually credit card authorization) must be agreed upon before a transaction actually occurs. Once the customer has met the terms of the sale, the SEC 10 creates a unique copy of the specified software package, and this package, which also contains encrypted security control information, is transmitted through the customer's modem/SPP into his EUC 14. The preparation of the unique copy is accomplished by encrypting selected passages of the software. First, the SEC looks up the unique PEK for the user's SPP. Next, the SEC selects an available Registration Index Number (RIN) specific to the user's software copy. Passages are encrypted in a manner such that they can be decrypted by the SPP using its PEK modified by the package-specific RIN.

When the EUC 14 begins to receive a unique copy of a specific software package, the EUC 14 sends the control information block which arrives first to the SPP 12 for registration. Included in this control information is the encrypted Registration Index Number (RIN) which is decrypted by the SPP 12 and stored in its memory. After the control information has been decrypted by the SPP 12, the remainder of



the transmission, the encrypted software package itself, is then passed through the SPP 12 to the customer's EUC 14 for storage on user-selected media. Each time the customer runs software purchased from the SEC 10, his SPP 12 must also be connected and that SPP 12 must be the same SPP 12 which was used when purchasing the software initially. If either of these conditions is not met, then the software will not operate on the EUC 14 because the PEK and the RIN for decrypting any particular software package are only stored in the SPP 12 which was used for purchasing that software.

The two phases of operation are summarized in the following Tables I and II.

TABLE I Software Preparation and Delivery Phase

- 1. User with modem/SPP calls SEC.
- 2. SEC verifies SPP identification number.
- 3. User selects software from menu.
- 4. SEC looks up PEK for user's SPP.
- 5. SEC selects available RIN for user selected software.
- 6. SEC encrypts selected passages of software in a manner such that they can be decrypted by SPP by algorithmically combining encrypted passage with key generated by modifying PEK with RIN.



- SEC transmits control block with encrypted version of RIN, followed by software with encrypted passages.
- 8. EUC passes control block to SPP.
- 9. SPP decrypts and stores RIN in its memory.
- 10. EUC stores software with encrypted passages on disk or other media.

TABLE II

Software Execution Phase

- 1. EUC loads program off disk or other media.
- 2. Initial module of software tests decryption by sending data to SPP.
- SPP looks up corresponding RIN and decrypts data with key formed by modifying PEK with that RIN.
- 4. Software tests returned data and halts execution if data are incorrect.
- Normal program execution until encrypted passage encountered.
- 6. At encrypted passage, software jumps to a decryption module which transfers data or instructions to SPP and gets decrypted data or instructions in return.
- Resume normal execution until next encrypted passage.



The Software Protection Processor™ (SPP) 12 is the heart of the software distribution system of the present invention since it is the SPP 12 which provides intelligible code to the EUC 14. As shown in Figs. 2 and 3, non-volatile read/write memory 22 is provided in the SPP 12 for storing a valid software list. This non-volatile read/write memory may be implemented in an electrically erasable programmable read only memory (EEPROM) so that the list can be updated with each purchase. The EEPROM 22 will also include a publicly accessible serial number and the PEK. In the preferred embodiment, a clock/timer 24 is also included in the SPP 12 to implement time-limited authorization so that software can be used on a trial or approval basis or rented for a certain predetermined allotted time. The clock/timer 24 is provided with a battery backup. By using such a clock/timer 24 the current time will be updated with every connection to the SEC 10. If there is no battery backup and power to the clock/timer 24 is lost, it is necessary to reconnect to the SEC 10 before any rented software can be run. In addition to the non-volatile read/write memory mentioned above, the SPP 12 will also include a non-volatile read-only memory (ROM) 26 for storing the SPP's operating program. An illustrative operating program in 2-80 assembly language is given in Microfiche Appendix Part I. If it is desired to provide for later update of the SPP's operating program, however, then an EEPROM can be substituted for the ROM 26 which contains the operating program.

The SPP 12 also includes a Z-80 microprocessor 28 which controls the functioning of the SPP 12. This microprocessor 28 will communicate with both the SEC 10 through modem 16 and with the EUC 14. Appropriate communication interfaces 30, 32 (Fig. 2) are provided between the microprocessor 28 and modem 18 and between the microprocessor 28 and the EUC 14, respectively. These communication interfaces include a dual asynchronous



receiver transmitter (DART) 34. The DART 34 communicates with the EUC 14 and the SEC 10 through lines 36 connected between the EUC 14 and the SPP 12 and through lines 38 connected between the SEC 10 and the SPP 12. The DART 34 is linked to the microprocessor 28. Input/output addresses are decoded by circuit 40. A baud rate generator 41 is also included for appropriately matching the modems 16 (Fig. 1) and 18.

The microprocessor 28 preferably includes its own working random access memory (RAM) and it has the ability to execute a program out of either EEPROM. RAM 42 is provided as working storage for microprocessor 28. This RAM 42, as well as EEPROMS 22, 26 are linked to the microprocessor 28. Memory addresses are decoded by circuit 44.

Clock circuts 46, 48 drive microprocessor 28 as well as the baud rate generator 41. A 10mSec delay circuit 50 is also connected to the microprocessor 28 which introduces a delay whenever a write operation is directed to EEPROM 22.

In the preferred embodiment, the modem 18 is included in a "black box" with the SPP. This modem 18 takes data from the microprocessor 28 and transmits it over phone lines, and the modem 18 receives data transmitted over the phone line and passes it on to the microprocessor 28. While all of the above elements of the SPP 12 have been described as individual components, most, if not all, of these functions may be implemented on a single chip or small number of single chip microcomputers.

Another aspect of the present invention which requires special consideration is the Package Encryption Key (PEK) which is created for each customer and his SPP by the SEC 10. This key will be rather large, preferably on the order of 256 bits. Some or all of the bits of the PEK will be used to perform one or more



operations on a section of the code having a corresponding number of bits.

For example, if a key of 256 bits is used, the SEC 10 will select portions of the program to be encrypted which also have 256 bits. An operation, such as exclusive ORing (EOR) the two 256 bit codes, is then performed and the resulting 256 bits is inserted into the program at the position from which the selected 256 bits were removed. It is this encrypted version of the software package which is sent to a customer. In order to decrypt this code, the SPP 12 will perform a reverse operation using the 256 bit key and the encrypted 256 bits. In the case where the original operation was an EOR, the reverse operation is also an EOR. The specific key which is assigned to each customer will be stored in the SEC 10 and this key will be used by the SEC 10 when creating each encrypted version of software.

The valid software list which is maintained by the SPP 12 in EEPROM 22 includes an RIN for each entry into the valid software table. This RIN points to a location in the PEK. For example, if a one byte RIN (0-255) in the valid software table for a specific software package is 108, then the program's encryption will be performed using a key which begins at the 108th bit of the customer's PEK. In one embodiment, as each program is sent to the EUC 14, it will be given the next consecutive available RIN for the PEK. In other words, the first program in the valid program table will be given a one byte RIN of 1 into the PEK, the second program sent to the SPP's valid software list will be assigned an RIN of 2 for the PEK and so on. The assigned keys will remain the same size since the ends of the PEK are simply "wrapped around" so that the new end of the PEK is the bit immediately preceding the beginning bit of the PEK.

To summarize, the actual encryption key is a function of the user-specific PEK and the software-specific RIN. The RIN,



in this embodiment, simply designates a starting location in the PEK. Other means of combining RIN and PEK to obtain the software-specific encryption key are possible.

Besides encrypting software with a unique PEK/RIN key, the software distribution system of the present invention will provide additional safeguards against copying. For example, since most programs are constructed from small, interrelated modules, portions of each module may be separately encrypted by the SEC 10. These modules may then be linked together by a linkage editor which basically keeps a list of the beginning and When an end of a module is end addresses of all modules. reached, a jump command to the beginning of the next appropriate module may then be put into effect. In this manner, all the modules are tied together. In fact, once such modules are linked in this fashion, the individual modules lose their identity and the program appears to be monolithic. Therefore, to further complicate any attempt to copy software, the software distribution system of the present invention may scramble the order of the modules on a random or other basis. In this way, any person gaining access to two copies of the same encrypted software package sold by the SEC 10 will not be able to locate the sites of encryption by simple comparison.

A concrete example of program encryption and module randomization is presented in Part II of the microfiche appendix. Five sample modules are incorporated in a program called "MAINI". The program is designed to run on a MSDOS system such as that used on the IBM PC. The unencrypted object code for the program is stated in hexadecimal digits on pages 1-13 of Part II of the microfiche appendix. To prepare this software for delivery, a special "security control module" (pages 17-19) is added to handle all calls to the SPP. The security control module acts like a subroutine. Actually, this subroutine engages the

"subprogram" in the SPP to decrypt the encrypted passages. illustrate an encrypted passage, special print data (a part of the software) is presented in connection with modules 1 and 4. As shown on page 16 of Part II, two sets of "external character" data are created namely "*messgl" and "*messg4" in place of the plain text version "This is " module 1 or 4, respectively. (See page 16, Part II.) Before encryption, the print data resides correctly in program memory beginning at hex location 2762 (page 12, Part II). After encryption, the first eight bytes of the print data for modules 1 and 4 is encrypted as shown for module 1 in locations 2762-2769 (page 31, Part II). The encryption was performed by exclusive ORing. The original eight bytes (representing "This is " with the 64 bit (eight bytes) PEK "AAAAAAAAAAAAAA". In binary this nonrandom PEK is "1010 ... " Thus the even/oddness of the RIN determines whether the decryption key starts with "0" or "1". The encrypted code on page 31 was produced using an even RIN of 1234 and the encrypted code for the scrambled module format was produced using an odd RIN of 4321. When using either encrypted program "MAINLE" or MAIN2E", when running the user's copy, the security module is called upon reaching "*messgl" or "*messg2" and the encrypted bits are sent out to the SPP and exclusive OR'd with the key (i.e., either "101 ... " or "0101 ... " depending on the RIN in use), and returned to the user's computer in decrypted form as the equivalent of "This is ". Note that while a location-by-location comparison of "MAIN1" (unencrypted) and "MAINIE" could reveal the encrypted locations, this type of comparison is rendered more difficult by scrambling the order of the modules as in "MAIN2E". In practice, it is intended that a longer random number PEK will be used and executable instructions as well as program data will be encrypted in a similar manner.

The foregoing system thus solves the problem of secure distribution of software to users by associating each unique copy



with specific hardware to which the end user's computer must be connected. Copies of the user's program copy will only operate when the SPP with the right PEK and RIN is attached. When used in a phone line network, the system provides a powerful means of providing on-going service to users. For example, the user can be notified of and provided with software enhancements via the network as soon as they are available. Moreover, the SPP provides for time-limited authorization. At the end of a trial period or rental term, the RIN for the borrowed software is cancelled, thus disabling further use.

Among the various other possible configurations of the present system are local area networks. Modem communication is not the essential embodiment of the invention, only the preferred one. The invention also lends itself to use as a terminal verifier. Instead of using a password, the SPP can be used to decrypt a code from a host computer and retransmit a decoded password to the host to verify authorization for access to secure data, for example.

Employing EEPROM's in the SPP opens up the possibility of downloading completely new software for running the SPP. Even new PEK's can be added by "remote control" from the SEC. Thus, the SEC maintains control over the cryptographic system in use by the SPP. For example, in addition to the exclusive OR algorithm, new algorithms with entirely different, perhaps more complex logic functions, could be added, including nonreversible keys.

While the software distribution system of the present invention has been described with reference to its preferred embodiments, various modifications and alterations in both hardware and software will occur to those skilled in the art from the foregoing detailed description and the accompanying drawings. These and other modifications and variations are intended to fall within the scope of the appended claims and equivalents thereto.

-19-PART I

*; Softnat SPP code

```
.apop
.pabs
.wlink
.phaw
   RAM equ 1000h
RAMSZ equ 800h
CCPROM equ 600h
   CTC0
CTC1
CTC2
CTC3
                     equ 10h
                    equ 11h
equ 12h
equ 13h
                    equ 00h
equ 01h
equ 02h
equ 03h
  SIODA
  SIOCA
                    equ RAM+400h
equ RAM+500h
  CIRBA
                                                         ; circular buffer for a to b direction ; circular buffer for b to a direction
                    equ'-'
                                                         ;modem mode escape char
;number of modem chars needed
;guard band count (about 1.5 seconds)
  HODESC
  ESCENT
                    equ 3
equ 10000
                   org RAM
.blkb 2
.blkb 2
.blrb 2
.blkb 2
                                                        ; input circular buffer pointer for a to b direction joutput circular buffer pointer for a to b direction ; input circular buffer pointer for b to a direction joutput circular buffer pointer for b to a direction
  opnta:
ipntb:
  opntb:
                                                        guard band timer; set to -1 if last char was guard band; number of escape chars
  grdflg: .blkb l
count: .blkb i
                                                        they in current use -- for now, just use I byte buffer for encrypt operation
 curkey: .bikb i crypbf: .bikb 0
 orā ŽEPROM
key: .blkb 8
sftlst: .blkb 7*8
                                                        ; 8 byte key; software list -- 0 entries of 7 bytes
                   org 0000h
start: lxi sp,RAM+RAMSZ
call init
lxi h,CIRBA
shid ipnta
shid opnta
lxi h,CIRBB
shid opnta
lxi h,CIRBB
shid opntb
                                                                         ; set up ctc and plo
                                                                         ; init circular buffer pointers .
                  call geta
mov c,a
lxi h,cmdtbl
call dsptch
jmp main
                                                                        ;get char on channel a
;to c
;dispatch table
;call appropriate routine
main:
dspich: mvi a,-1
cmp m
                 cmp m
rs
mov a,c
cmp m
jr dsptc!
ins h
ins h
ins h
                                                       ; end of table, ignore
                                                       ; match ...
                                                                                                                             S 65 1
jmp dsptch
dsptc1: inm h
mov a,m
inm h
mov h,m
```

; get address, and jump there



selki

```
mov 1,a
            dw retst db 1 dw encrypt db 2
; cmdtbl:
                                      ;raturn status
                                       return encrypted response
             dw gettime
                                       ;return time and date
             dw selkey
                                       ; select key
             db
db
                 update
             dp
dp
                 settime
                                       ;set time and date
             dw rdlist
                                       ;return software list
            dw modem
                                       : co to modem mode
cmdtbl: db '0'
             dw retst
             dw encrypt
                                       ;return encrypted response
             dw gettime
                                       ; return time and date
             dw selkey
                                       ; select key
             dw undate
                                       supdate software list
            dw settime
db '6'
dw rdlist
db '7'
                                       ;set time and date
                                       ; return software list
            dw modem
                                       ; go to modem mode
retst.
                                       return status -- 'S' for now
             mvi a,'S'
call puta
ret
                                       ; return encrypted response
encrypt:
            mvi c,B
lwi h,crypbf
lda curkey
mov b,a
cail getr
xra b
mov m,a
rnx h
der c
jnz eneri
                                       ;get 5 bytes to encrypt;encrypt it
encri:
            mvi c,0
Ixi h,crypbf
mov a,m
call puta
Inx h
der e
jnz aner2
rat
encr2:
                                       ;send back encrypted byles
          : ;select key
call geta ,get index into software list
mov b,a
call geta ,and most significant part idon'
mov a,b
ana 4
jnz selk!
ida bey ,index of 0 means use defiult key
sta curkey
ret
call gtlist ,return pointer
mov c,m ;index
selkey:
```

, and most significant part (don't use it for now)

, index of 0 means use default key

, return pointer to entry in software list ; index into key



```
mvi b,0
ixi h,key
did b
mov i,m
sta curkay
cet
                                            ; gat kay
                             enter with index into software list (only 1-6 legal) in reg a return pointer to software list
 gtlist:
                                           ;beginning of software list
               ini h, sftls.t.
gtisti: dad d
der a
jng ytisti
gtisti: dad d
                                            , only 8 possible antries
isize of entry in list
, find beginning of appropriate entry
                                            ;update software list;get index into list;get beginning of that entry;now get 7 software list entries;fill in entry
 update:
call geta
call ythist
mvi c,7
updati: call geta
updat2: call wrtprm
inx h
dcr c
jnx updati
ret
                                            ; write reg a to eeprom address in hi
               ;write rag a to eaprom address in hi
wrtprm:
push b
mvi m, Offh
mvi c.0
wrtpr1: der e
jnz wrtpri
mov m, a
wrtpr2: der e
jnz wrtpr2
pop b
ret
                                            ;write if first to erase eeprom; now delay a while to allow monostable its duty cycle
                                            return software list -- for now, return key too
.;0 byte key + 56 software list entries
edlist:
rdlist:
mri c,64
lxi h,key
rdlstl: mov a,m
call puta
inx h
dcr c
jnz rdlstl
cet
;not yet implemented gettime:
settime:
                                            ;return time and date; set time and date
               ret
              sub a
sta grdfig
sta count
                                            ; init guard band detect variables .
modem:
modem2: 1xi h, GRDCNT
                                           ; init guard band count
              shid grdtmr
modemi: in SIOCA
ani 4
cnr snda
in SIOC3
ani 4
cnr sndb
in SIOCA
ani 1
                                                          ; channel A status
                                                          ; ready to send on a
                                                          ; ready to sand on b
```



```
jz modem3
                                      CALL FEVA
                                                                                                                  ;escape to command mode char?
;no -- reset
;guard band precede this?
                                     cpi Hodesc

inz modesc

ida grdfig

cpi -l

inz modesc

ixi h,count

inr m

imp modesc2
                                                                                                                  ;no -- reset
iyes, advance escape count
                                                                                                                   ; init guard band count again;
modem3: in SIOCB
ani l
cnr rcvb
                                                                                                                                                    ; ready to receive on b
                                                                                                                                                        :decrement guard band timer
                                       Ihid grdtmr
dex h
shid grdtmr
mov a.h
ora i
jns modemi
                                        mvi a,-l
                                                                                                                                                         inow have a guard band
sta grdfig
modem5: lda count
cpi ESCCHT
rz
jmn modem1
                                                                                                                                                         right ascaps count?
;yes, return to command mode
;no, continue
                                                                                                                                                          ; send on a if char ready in b input buffer
                                        thid opath
lda ipath
cmp l
ct
mov a,m
out SIODA
inc l
shid opath
  snda:
                                                                                                                                                           ; no chars ready
                                                                                                                                                            , update circular buffer pointer
                                                                                                                                                            psend on buf char ready in a input buffer
                                           Ihld opnta
    sndb:
                                         lhid opnta
ida ipnta
cmp i
rr
mov a,m
out SIODB
inr I
shid opnta
ret
                                                                                                                                                           no chars ready
                                         ; receive char on channel a -- returns char in reg a in SIODA mov m.a inr l shid ipnta ; undata con returns char in reg a inr l shid ipnta ; undata con returns char in redurns char in redurn
                                                                                                                                                            ; update circular buffer pointer
      fcva:
                                          , update ci
in stode
mov m, a
inr i
shid ipntb
      rcvb:
                                                                                                                                                               ; update circular buffer pointer
```

puta: ;send char in reg a on channel a
push psw
putal: in SIOCA ;channel A status
ani 4
jz putal
pop psw
out SIOOA
let



```
; get char from channel a to reg a
geta:
                       in SIOCA
ani l
jr geta
in SIODA
ret
                                               ; init CTC and SIO
; init CTC as a divide by 16 to generate 1200 baud
; init channel 0, and channel 1 to divide by 16

mvf a,01000101b ; counter mode, load time constant next, no int
out CTC0
mvi a,16
out CTC1
mvi a,01000101b ; counter mode, load time constant next, no int
out CTC1
mvi a,16
out CTC1
; time constant
out CTC1
out CTC1
counter mode, load time constant next, no int
out CTC1
out CTC1
 init:
;init SIO channels A and D to asynch mvi a,10h , out SIOCA
                      out SIOCA
myi a.4
myi a.010CA
myi a.010CO100b
out SIOCA
myi a.3
out SIOCA
myi a.11000001b
out SIOCA
myi a.5
out SIOCA
                                                                                              ;16x clock,
                                                                                              ;Rx enable, 6 bits/char
                                                                                               ;Tx enable, 8 bits/char
                       mvi a,10h
out SIOC3
mvi a,4
out SIOC3
mvi a,01000100b
out SIOC3
mvi a,3
out SIOC3
mvi a,11000001b
out SIOCB
mvi a,5
out SIOCB
mvi a,5
out SIOCB
                                                                                               ;16x clock,
                                                                                               ; Rx enable, 0 bits/char
                                                                                               ;Tx enable, C bits/char
                        ret
                        end
```



PART II

EXAMPLE OF PROGRAM ENCRYPTION AND MODULE RANDOMIZATION

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- Figure 2 Five sample modules which are part of "MAIN". They are unencrypted and in object code.
- Figure 3 These five modules in source code (the "C" Language).
- Figure 4 "MAIN's" security control module in object code.
- Figure 5 The security control module in source code ("8086 Assembly Language").
- Figure 6 The program "MAIN" encrypted with its security module and sample modules in order 1.2,3,4,5,Security coded in object code. The RIN used is 1234.
- Figure 7 The program "MAIN" encrypted with its security module and sample modules in order 1,3,5,Security,2,4 coded in object code. The RIN used is 4321.

Dump of MAIN1.EXE/H

			,														1
ø:	4 D	5A	вя	øı	16	ØØ	64	ØØ	20	ØØ.	10	88	FF	PF		82	MZ
10:	99	øì	DD	51	ØE	30	88	ØØ	10	00	9 9	90.	10	90		99	
20:	74	99	55	Ø2	79	00	55.	02	7 E	00	55	Ø 2	88	88		80	t.U.y.U. ~.U
	00	00	00	88	00	_	00	00	ØØ	ØØ	ØØ	Ø Ø	ØG	ØØ		88	••••••
30:	99	39	00	ØØ	ØØ	03	ØØ	00	00	an.	80	σa	90	Ø	BA	aa	
40:	80	99	66	00	93	00	00	00	99	Ø	00	ØØ	0 B	99	GØ	00	
50: 60:	90	93	88	93	90:		ØØ	99	ЯØ	96	88	00	00	ØØ		99	
			88	88	00		00	00	00	90	ØØ	00	33	ØÐ	00	ØG	
70:	00	90 88	00	80	00	89	00	ØØ.	ØØ	00	60	ØØ	G G	ØØ	ø	Ø	
80:	98	88	00	00	68	00	ØØ	00	00	99	ØØ	99	Øß	00	39	Øß	• • • • • • • • • • • • • • • • • • • •
90:	88	-	00	88	30	80	00	00	60	ØØ	88	ØØ	ØØ	89	00	Øß	
A0:	66	00	Ø0	90	00	00	00:		00	99	00	ØØ	ឲ្យ	99	Øß	Øß	
в0:	90	00	98	99	30	00	aa	00	00	66	00	00	00	Oß	ឲស	00	
CØ:	88	00		90	00	00	00	00.	00	Øß.	90	80	94	ØØ	Øß	Øß	
DG:	00	00	90	99	00	ØG	99	00	90	90	00	AB	00	98	ØØ	ØØ	
EØ:	00	00	00	99	90	00	00	00.	99	00	90	00	66	00	99	σø	
FØ:	00	90	00		00	00	00	00	gø	00	00	ØØ	44	98	OD	90	
100:	00	00	00	00	00	00	ត្	90	00	00	00	ØØ	ព្រ	ØØ	00	99	
110:	00	80	00	00 00	-	99	00	99	00	00	00	ឲឲ	ОИ	BØ	90	99	
120:	88	00	88	0 O	38	ØØ	83	00	60	00	30	00	ØØ	69	80	00	
130:	99	88	00	90	00	99	90	00	00	00	ØØ	GG	βÐ	00	60	ØG	
140:	6.0	00	00	93	00	00	00	00	90	00	00	នគ	u a	ប្រ	ØØ	90	• • • • • • • • • • • • • • • • • • • •
150:	00	99	99	00	88	60	90	00	66	08	00	OB	GG	60	99	90	
160:	88	99	90	03	00	00	90	00	89	ពូត	ØØ	Øß	ØØ	00	90	Øß	••••••
170:	00	88	00	99	96	00	68	00	99	ØØ	99	ØO	GØ	96	៧៤	00	
180:	00	88	99		-	90	ßß	gø	88	0.0	99	00	00	ØØ	ØØ.	Øß	
190:	00	93	00	99	88	90	00	60	ØG	38	00	00	ØØ.	00	OB	ØØ	
lv0:	90	90	99	99	0.0	00	90	99	99	00	60	(38	ØØ	O O	ØØ	ØØ	
180:	00	00	88	00	90	00	46	00	99	88	88	ØØ	00	Óß	00.	00	
lcø:	00	90	30	00	80	90	00	90	99	80	មព	9.0	Øij	00	00	BH	
100:	00	00	90	90	98	80	99	93	99	99		00	AB	OA	ØØ	00	
LEO:	99	ØØ	80	ពថ	90	90	90	00	00		ØØ	ទូម	ø	ឲព	00	ØØ	
120:	00	00	00	99 74	64	63	65	20	43		31	2 F.	34	12	FΛ	BB	
200:	4C	61	74 8E		8 E	DØ	26	8B	18		00	2 B	Ûβ	F7	C3	00	
210:	55	Ø2 75		Bl	74	D3	E3	EB	93			ef	B B	E3	PB	89	
220:	FS			B8		84	Α3	10	88	06	33	CB	50	8 B		BE	
230:	. 88	96				46	32		88	D9	8.3	C3	ß 4	หา		FE	
240:	FF	2B	_	8 B		C6	05		47	E3	GD	C6	0.5	20	47	26	.+c G G&
250: 260:	8 A	84		95		47	E.2	F 7	33	CR	88	65	8C	D8		CØ	_ •
270:	BB		50	E8		00	8 B	£5	CB	Al	ØE	00	20	04	ЯØ	813	
280:	EØ	CB		_	EC	E8	ØE		F.8	19	00	F.A	24	88	68	2 F	
290:	88	E8					55		EC	FP	36	24	G G	E.B	95	03	
	9B	E5			. 5.5		. EC		26	00	50	E8	F7	02	88	E5	
2 A 0 :		C3			•	В8	38	00	50	E8	E9	Ø 2	813	E5	SD	C3	1.08. P1.
2B0:	55		EC				:00	EA	DE		88	P.5	50	C3		813	
200:	EC	, •				E8	CD	02	88		5 D	C3	130	00	E8	4 C	٠٠٠، ١٠٠٠ ما ١٠٠٠، ١٠٠، ١٠٠، ١٠٠٠، ١٠٠
200:	00		4C				75	•	. B@				60			EC	L.<.u(@
2E0: 2F0:	E8		90		C4		35		BF		60	88			. 00	'C4	
300:	37			. 04					43	83						C3	
310:	-	. 4C			FE	_	01	E8	13	80	51	В9				AC	
320:	E8		80		E9	-	E8	. 07	00	, AA			. C3				
338 +					83	-			EC	. 8E	3 76	10	8 A	84	30	E4	.{.v



```
40 8B F8 8A 85 22 01 30
10 EB E6 C7 06 82 00 00
                                E4 25 08 00 74 05 FF 46
340:
                                00 83 3E 82 00 20 7C 03
350:
                                         17 01 PP
                                                   46 10
         79 G1 8B 76 10 8A 04
                                30 E4 E9
      E9
360:
                                10 8A 04 30 E4 40 8B F8
                   09 00 8B
                            76
      C7 86 24 82
370:
                                00 75 03 E9 10 01 A1 24
      8A 85 22 Ø1 30 E4 25 Ø4
380:
                                16 8A 1C 30 FF 81 E3 0F
                                                              . . . . . . . F
      02 BB 0A 00 F7 EB FF 46
390:
                                                                       .F..P...
                                FF 46 10 C7 46 84 88 88
      90 03 C3 A3 24 02 EB CE
3AØ:
                                                              .v...9..
                                CØ 89 46 ØØ 74 29 4Ø 8B
      8B 76 10 8A 04 30 E4 85
3BØ:
                                98 99 75 1B 8B 46 94 3D
                                                                  .0.%
      PØ 8A 84 22 01 3Ø E4 25
3CØ:
                                FØ 8B 7E 16 8A Ø5 88 84
                                                              ..}..F..
      18 88 7D 8E FF 46 84 8B
3DØ:
      88 00 FF 46 10 EB C9 8B
AC 00 8B 76 10 46 8A 04
                                76 04 C6 84 88 00 00 E9
3 EØ:
                                                              ...v.F.. g.=>..v.
                                30 E4 3D 3E 00 89 76 10
3FØ:
                                A3 86 00 C7 46 04 00 00
                                                             u.....F. ....F...
400:
      75 09 B8 EC 00 FF 46 10
                                Cf 89 46 ØØ 74 29 40 8B
                                                             .v..........
                                                                       ..F.t) @.
      8B 76 10 8A 04 30 E4 85
410:
                                                                  .Ø.% ..u..P.=
                                08 00 75 1B 8B 46 04 3D
         8A 84 22 Ø1 3Ø E4 25
420:
      FØ
                                                              ..}..F.. ..
                                FG 8B 7P 19 8A 05 88 84
      10 00 7D 02 FF 46 04 8B
430:
                                76 84 C6 84 99 88 88 EB
                                                              ...P.... v...
      99 00 FF 46 10 EB C9 8B
440:
                                                             м.....Р..
                                D1 E0 88 F0 88 46 10 89
      4D A1 82 00 FF 06 82 00
450:
                                                             ....v... Ø....F.t
                                30 E4 85 C8 89 46 00 74
30 E4 25 08 00 75 1F FF
                         8A Ø4
460:
      84 AC ØØ 8B 76
                      10
      2D 40 8B F8 8A 85 22 01
470:
                                 Ø3 E9 66 PF 3D 3C ØØ 75
                                                              F...=>.u ..f.=<.u
      46 10 EB DF' 3D 3E 00 75
480:
                                                              ....u .....v
                                 03 E9 D1 FE ER B3 8B 76
      Ø3 E9 14 FF 3D 3D ØØ 75
490:
                                                              ...ø..F. ......F.
                                 C6 04 00 85 CO 89 46 04
      10 8A 04 30 E4 FF 46 10
4 AØ:
                                 E4 40 8B F8 8A 85 22 01
                                                              t*.v...0
      74 2A 8B 76 10 8A 64 36
4 BØ:
                                 46 10 EB E6 8B 76 10 8A
                                                              Ø.1..t.. F....v..
      30 E4 25 08 00 74 05 FF
4CØ:
                                 7F FE EB 00 B8 RE 00 50
                                                              .0...t.. ......P
      Ø4 3Ø E4 85 CØ 74 Ø3 E9
4 DØ :
                                 E5 FF 36 86 00 BB 99 00
                                                               ..P.... ..6....
      B8 88 00 50 E8 CD 01 8B
4E0:
                                                              s.F.....
                                 ES BB EC 00
                                             53 BB AA 00
      53 89 46 Ø6 E8 BD Ø1 8B
4 FØ:
                                 E5 85 CØ 89 46 ØA 75 Ø9
                                                              S.F.... .....F.u.
      53 89 46 98 E8 AD 91 8B
500:
                                 E5 83 7E 06 00 75
                                                    15 FF
                                                              ...P.e..
      B8 01 00 50 E8 65 03 8B
510:
                                 Ø3 8B E5 B8 Ø1 ØØ 50 E8
                                                              v...P.
      76 0A B8 E0 00 50 E8 D0
520:
                                                              ..... u..v....
                                   15 FF 76 GA B8 07 01
      13 Ø4 8B E5 83 7E 08 0Ø
                                 75
530:
                                                              P.....
                                    50 E8 F8 03 8B E5 A0
      50 E8 B5 03 8B E5 B8 01
                                 ġø
540:
                                                              ..A...u. .v..D.Ø.
                                 8B 76 96 8A 44.96 39 E4
      88 00 30 E4 85 CG. 75 GE
550:
                                 66 36 E4 85 CH 75 GE 8B
                                                              ....D.......................
      ØD Ø4 ØØ 88 44 Ø6 AØ 99
560:
      76 ØR 8A 44 Ø6 3Ø E4 ØD
8A 44 Ø6 3Ø E4 ØD Ø4 ØØ
                                 04 00 88 44 06 8B 76 0A
                                                              v..D.Ø.. ...D..v.
570:
                                 88 44 06 B8 AC 66 50 FF
                                                              .D.Ø....P.
58Ø:
                                                              6..... 3.P....
                                 33 CO 50 E8 A7 03 8B E5
      36 82 00 E8 EC FC 8B E5
59Ø:
                                                             ...].U.. ......
                                 ØE 81, 88 EC 80 86 14 01
      83 C4 GC 5D C3 55 81 EC
5AØ:
                                 04 38 E4 85 C8 75 83 E9
      89 46 ØC 8B B6 12 Ø1 8A
5B0:
                                 8A 04 30 E4 3D 25 60 89
      EC 00 8B DE 89 5E 00 43
5C0:
                                 E9 A7 ØØ 8A Ø7 3Ø E4 3D
8A Ø7 3Ø E4 BB 1E 3Ø Ø2
       46 06 89 9F 12 01 74 03
5 DØ :
      25 ØØ 75 34 FF 86 12 ØL
4B 85 DB 89 46 Ø6 89 1E
5E0:
                                                              K...F... G.
                                                                       Ø.x..6..
                                 36 02 78 0E 8B 36 2E 02
SFØ:
                                 EB A9 B8
                                          2R 02 50 FF 76
      FF 06 2E 02 88 04 30 E4
600:
                                 8D 46 68 56 8D 46 6C 50
                                                                       .F.P.F.P.
      06 E8 20 Ø4 8B E5 EB 9B
610:
                                 E8 5B 05 8B E5 85 C0 89
                                                              .F.P....
620:
      8D 46 9E 50 FF B6 12 01
                                                             46 84 86 88 86 12 81
       46 ØA 75 Ø3 E9 7C FF C7
630:
       8B 46 04 3B 46 08 7C 03
                                 E9 68 PF BB LR 3H 02 4B
640:
                                                              ....g.x.
                                 8B 1E 2E 02 FF 86 2E 02
       85 DB 89 1E 30 02 78 13
650:
                                                              ...B...Ø ....v..B
       8B F0 8A 42 0E 88 07 30
                                 E4 EB 12 8B 76 04 8A 42 ...
660:
                                                              .Ø...SP
                                 EB B9 03 8B E5 FF 46 64
       ØE 30 E4 BB 2E Ø2 53 50
670:
                                                              EB BE A1 30 02 48 85 CB
                                 A3 30 02 78 12 8B 36 2E
680:
                                                                 ...P. ..B....
                                 88 04 30 F4 E9 14 FF D8:
       Ø2-FF-06-28-02-8B-46-86-
                                                              ._P.v... .....
       2E 02 50 FF 76 06 E8 8B 03 8B E5 E9 05 FF 81 C4
```



```
8B EC B8 26 92 89 46 92
                                                                ..].U... ...&..F.
       9E 91 5D C3 55 83 EC 96
 6BØ:
                                                                ....^.;. s..G.Ø..
                                  73 ØF 8A 47 Ø6 3Ø E4 85
       B8 A6 G2 8B 5F Ø2 3B D8
6CØ:
                                                                .t..P....P.=..u
         74 86 83 46 82 88 EB
                                  E7 8B 46 02 3D A6 02 75
6DØ:
       CØ
                                  FF 76 02 FF 76 BC FF 76
                                                                .3.,...) . v..v..v
6 EØ:
       -07 33 CØ 83 C4 06 5D C3
                                  86 5D C3 55 83 KC 8A 8B
                                                                6 FØ :
       ØA E8 Ø7 ØØ 8B E5 83 C4
                                                               ..v..D...t.G.%..
       EC 8B 76 12 8A 44 06 84
                                  CA 74 1F 30 E4 25 H2 80
700:
                                  JA Ø3 88 E5 8B 76 12 8A
       74 0A 56 B8 FF FF 50 E8
710:
                                                               8B E5 8B 76 18 8A 04 38
720:
      44 07 30 E4 50 E8 49 10
                                 FF 76 ØE E8 D4 ØB 8B R5
Ø3 05 A4 01 50 FF 76 ØE
730:
       E4 EB 74 Al 7E Ø3 40 50
740:
       8.9
         46 06:48 75 12 AL 7E -
                                 .B8 02 00 50 33 C0 50 33
8B ES C7 46 04 02 00 EB
                                                               .....F. ...P3.P3
       EB B9 GC 8B E5 89 46 G6
750:
                                                                .S.v... ...F....
       DB 53 FF
                76 06 E8 DE AE
760:
                                                               G.6-..v. ....F.
                                 E8 97 ØB 8B E5 C7 46 Ø4
7E Ø3 Ø5 A4 Ø1 5Ø FF 76
       47 FF 36 7E Ø3 FF 76 ØE
770:
780:
       01 00 89 46 36 EB 31 A1
                                  04 02 00 89 46 96 EB 18
790:
       ME EA 78 MC 8B E5 C7 46
                                 77 74 DC 3C 72 74 C2 3C
                                                                3....}.< wt.<rt.</pre>
       33 CO 83 C4 OA 5D C3 3C
7A0:
                                  83 7E 06 FF 75 07 33 CO
                                                               au...}...."..u.3.
       61 75 03 E9 7D FF RB R8
7BØ:
                                                               ...]..v. .D....F.
                                 8B 44 04 85 CØ 89 46 Ø8
      83 C4 ØA 5D C3 8B 76 12
7CØ:
                                                               u...P." .....F.
u..v...3...]
,.v...6...u..N...
                                 10 8B ES 85 CØ 89 46 08
7DØ:
      75 LF B8 00 02 50 E8 22
                                 8B E5 33 CØ 83 C4 8A 5D
7E0:
      75 ØF FF 76 Ø6 E8 89 ØF
                                 85 CØ 75 Ø5 Bl 4E Ø4 Ø4
7 FØ:
      C3 8B 76 ØE 8A Ø4 3Ø E4
800:
      00 8B 46 06 8B 76 12 88
                                 44 Ø7 8B 46 Ø8 89 Ø4 89
                                                               D..F..D. %..t..D.
                                 25 85 88 74 87 67 44 82
810:
      44 04 8B 46 04 88 44 06
                                 44 02 00 02 8H 46 12 83
8B EC 8B 76 08 8A 44 06
                                                               ....v.. D....F..
      00 00 EB 08 8B 76 12 C7
820:
      C4 8A 5D C3 55 83 EC 84
                                                               830:
                                 B8 FF FF 50 R8 R5 01 8B
FF 74 04 E8 3D 10 8B E5
                                                               0.%..t.V ...P....
840:
      30 E4 25 02 00 74 0A 56
                                                               ....P.v. .t..=..
      E5 B8 00 02 50 BB 76 08
850:
                                                               .v..D... .D...D.Ø
      8B 76 88 C7 44 84 89 89
                                 C6 44 86 86 8A 44 87 38
860:
                                 C4 04 5D C3 55 8B EC FF
                                                               E4 50 E8 FC 0E 8B E5 83
870:
                                                               v..v.....j.U...
                                 BB E5 -5D C3 55 83 EC 06
      76 96 FF 76 94 E8 F1 F9
880:
      8B EC 8B 76 ØA FF 46 ØA
                                 8A 04 30 E4 85 C0 89 46
890:
                                                               .t) ..Ø.K ....Ø.x.
                                 85 DB 89 1E 30 02 78 0E
      04 74 29 8B 1E 30 02 4B
8A0;
                                 88 04 30 E4 EB D4 B8 2E
                                                               8B 36 2E 02 FF 06 2E 02
8BØ:
                                                               .P.v..1. .....Ø.H.
                                 88 E5 EB C6 A1 30 02 48
      02 50 FF 76 04 E8 6C 01
8C0:
                                                               ...g.x.. 6.....
      85 CØ A3 30 .02 78 10 8B
                                 36 2E 02 FF 06 2E 02 B0
8 DØ:
                                 2E 02 50 B8 0A 00 50 E8
C3 55 83 EC 08 8B EC C7
                                                               B....] .U....
      ØA 88 Ø4.3Ø E4 EB ØD B8
8 EØ:
8F0:
      42 01 8B E5.83 C4 06 5D
                                                               F....v.. E.......
                                 46 BC BA 84 30 E4 B5 CØ
900:
      46 06 00 00 8B 76 0C FF
                                                               8B 5C 02 4B 89 5C 02 85
07 30 E4 EB 0B FF 76 0E
910:
      89
         46 04 74 28 8B 76 0E
      DB 78 ØA 8B 1C FF Ø4 88
920:
                                 89 46 06 EB C7 8B 46 06
      EF 76 04 E8 FE 00 8B E5
930:
                                                               ...].U........................
                                 96 8B EC C7 46 94 99 98
      83 C4 88 50 C3 55 83 EC
940:
      8B 46 04 3D 10 00 7D 23
2C 02 30 FF 81 E3 02 00
                                 B1 03 D3 E6 88 F6 8A 9C
                                                               .F.=..}# ......
950:
                                                               P....F ....V.V
                                 89 46 88 74 89 85 26 82
960:
                                 04 EB D5 FF 76 GC FF 76
      50 E8 C0 FE 8B E5 FF 46
978:
                                 96 5D C3 55 83 EC 94 8B
                                                               980:
      ØA E8 F8 FE 8B E5 83 C4
                                                               ..v..D.Ø .....F.t
                                 E4 A9 Ø1 ØU 89 46 ØØ 74
990:
      EC 8B 76 08 8A 44 06 30
                                 FF 83 C4 64 5D C3 8B 76
                                                               .%0.t.................................v
9 A Ø :
      05 25 30 00 74 08 B8 FF
      08 8B 44 04 89 64 8A 44
                                                               ..D...D .G....S.
                                 07 30 E4 BB 00 02 53 FF
980:
                                 76 0B 89 44 02 85 CØ 75
00 88 44 06 B8 FF FF 83
                                                               4P. .... v..D...u
      34 50 E8 27 0B 8B E5 8B
9 C Ø :
                                                               ..n.0....
9 DØ :
      13 8A.44 06 30 E4 0D 10
                                                               ..]..v.. |..u..D.
      C4 04 5D C3 8B 76 08 83 7C 02 FF 75 18 8A 44 06
9 EØ:
9 FØ:
      30 E4 0D 20 00 88 44 06
                                 C7 44 02 00 00 B8 FF FF
        C4 04 5D C3 8B 76 08 8B 44 02 48 89 44 02 85 78 10 8B 04 FF 04 8B F8 8A 1D 30 FF 81 E3 FF
                                                               ...)..v...D.H.D..
      83 C4 04 5D C3 8B 76 08
                                                               .x.....
```



```
FF 8B E5 8B D8 8B C3 83
                                                               ....v..b
      00 EB 0A FF 76 08 E8 62
A20:
                                                               0...F. t. 80.t.
                                 8B EC 8B 76 10 8A 44 06
      C4 64 5D C3 55 83 EC 0A
A30:
                                 74 05 25 30 00 74 08 B8
76 10 8B 04 2B 44 04 8A
      30 E4 A9 02 00 89 46 00
A49:
                                                               .....).. v...+D.
      FF FF 83 C4 ØA 5D C3 8B
                                                               \.0.... E.F.t
A50:
                                 89 46 08 89 46 06 74 5C
FF 74 51 8B 04 FF 04 8B
                                                                        .F..F.t\
      5C 06 30 FF 81 E3 04 00
3D 00 02 74 57 83 7E 0E
A60:
                         7E 0E
                                                                 .....us.v..D
A79:
                                  ØA 75 24 8B 76 10 8A 44
      5E ØE 8B FØ '88 1C 83 FB
ABØ:
                                                                .A.....CS .t.P.
                                  FF 74 84 58 89 5E 86 EB
      07 30 E4 8B 5E 06 43 53
A90:
                                                                ....v.. \....F..
                                  5C 04 89 1C 89 46 08 8B
      F6 0A 8B E5 8B 76 10 8B
AAØ:
                                  46 08 3B 46 06 75 08 8B
                                                               v..D... f.; F.u..
      76 10 C7 44 02 00 00 8B
ABØ:
                                  46 06 00 00 83 7E 06 00
                                                               F....] .. F.......
      46 ØE 83 C4 ØA 5D C3 C7
ACØ:
                                                               t9.v..D. 0..v..t.
                                  30 E4 FF 76 06 FF 74 04
      74 39 8B 76 10 8A 44 07
ADØ:
                                  10 8B 5C 04 89 1C 8A 5C
                                                               P......
AE0:
      50 E8 B4 GA 8B E5 8B 76
                                  46 08 74 07 C7 14 62 00
                                                               .a.... F.t..D..
      86 30 FF 81 E3 04 00 89
AFØ:
                                  02 00 02 83 7E 08 FF 75
                                                               ....v..b ....-..u
      99 EB 98 8B 76 10 C7 44
BØØ:
                                                               ..v..D.Ø .. ..D..
      10 8B 76 10 8A 44 06 30
16 8B 46 08 3B 46 06 7D
                                  E4 0D 20 00 88 44 66 EB
B10:
                                                               ..F.;F.) ..v..D.0
                                  GE 8B 76 10 8A 44 96 30
B20:
                                  46 ØE 3D FF FF 74 25 8B
                                                                ....D.. F.=..t%.
      E4 0D 10 00 88 44 06 8B
B30:
                                  02 85 DB 78 0A 8B 1C PF
76 10 FF 76 0F E8 D4 FE
                                                               v..\.K.\ ...x....
      76 10 8B 5C 02 4B 89 5C
B40:
                                                               ...ø.... v..v.
      04 88 07 30 E4 EB 12 FF
B50:
                                                                ....F.. ..v..D.0
                                  00 8B 76 10 8A 44 06 30
         E5 EB Ø5 C7 46 ØE ØØ
      88
860:
                                  FF 83 C4 ØA 5D C3 8B 46
                                                                .10.t...]..F
         25 30 00 74 68 B8 FF
R74:
      E.4
                                                                ....).U. .6..3..F
                                  EC 36 8B EC 33 CF C7 46
      ØE 83 C4 ØA 5D C3 55 83
B80:
                                                                ....F. . .v:..ø..
      12 FF FF C7 46 14 20 80
                                  8B 76 3A 8A 1C 30 FF 83
B90:
                                                                .-.F..F. .E..F.u.
                                  89 46 ØE 89 46 10 75 09
      FB 2D 89 46 BC 89 46 16
BAØ:
                                                               BC 8B 76 3A 8A 84 39 E4
BBG:
      B8 01 00 FF 46 3A 89 46-
                                  22 01 30 E4 25 04 00 74
      89 46 00 40 8B P0 8A 84
BC0:
                                  46 14 30 00 8B 76 3A FF
      4A 83 7E 00 30 75 05 C7
BDØ:
                                                                         ..F..v:.
                                  ØØ 89 46 16 8B 76 3A 8A
                                                                P:..Ø.%.
       46 3A 8A Ø4
                   3Ø E4 25 GF
BEØ:
                                  22 01 30 E4 25 64 NØ 74
                                                                .ø.e...
      Ø4 3Ø E4 4Ø 8B F8 8A 85
BFØ:
                                                                         ..F:..G.
                                  EB FF 46 3A 8A 1C 38 FF
                                                                .....
      1A 8B 46 16 BB GA GG F7
CØØ:
                                                                ....F
                                  16 EB D1 8B 76 3A 8A 84
       81 E3 ØF ØØ Ø3 C3 R9 46
clø:
                                                                6.=..u7. F:.F..
                                               12 au 09 8B
                                     3A C7 46
      30 E4 3D 2E 80 75 37 FF
76 3A 8A 04 30 E4 46 8B
C20:
                                  46
                                                                v:..g.e. ...".g.%
                                 F8 8A 85 22 81 30 R4 25
C3Ø:
                                                                ..t..F.. .....F:.
                                            EB FF 46 1A 8A
       Ø4 ØØ 74 1A BB 46 12 BB
                                  6N 68 E7
C48:
                                            12 EB D1 8B 76
                                                                .и..... ...P....v
       1C 30 FE 81 E3 0F 00 03
                                  C3 89
                                        46
C50:
                                  75 89 BB 01 88 FF 46 3A
                                                                3A 8A 84 38 E4 3D 6C 88
C68:
                                        3A 8A 64 36 84 89
                                                                .F..F... .v:......
                                  8B 76
       89 46 8E C7 46 1C 86 88
C70:
                                                                    ·..t. .v>..
                                  BB 76 3E 8B 64 83 U4 64
       AB #2 83 7E #E ## 74 17
C80:
                                                                ...\... N..
                                  4E 1E 89 5E 20 EB 19 8B
       8B FØ 8B 5C #2 HB #C 89
C90:
                                                                ۷>.... دن
                                  EG 8B 1C 33 C9 85 DB 79
       76 3E 8B 64 83 64 62 8B
CAB:
                                                                .T.N . . . F . .yB.
                                  BB 46 20 85 CF 79 42 F7
       Ø1 49 89 4E 20 89 5E 1R
CBG:
                                            10 01 00 EB 31
       56 20 F7 58 LE 83 58 20
                                  FF C7 46
CC0:
                                                                .~..t..v >....
                                  3E 8B 84 83 84 84 88 F6
       83 7E GE GG 74 17 BB 76
CDB:
                                  89 5E 20 EB 14 8B 76 3E
1C 33 CO 89 46 20 89 5E
       88 5C 02 8B UC 89 4E 1E
CEØ:
                                                                         .3..F
                                                                . . . . . . .
       8B 64 83 04 02 8B FU RB
 CFØ:
                                                                ..F....F
F .^.3..
                                  06 48 8B FU 89 46 06 8B
                                                                         .H...F
       1E C7 46 06 0B 00 8B 46
DOO:
                                  GA GE 89 76 HG ER 49 MD
         20 8B 5E 1E 33 C9 BA
                                                                - .a...v
       46
DIG:
                                  00 88 52 22 HB 46 20 8B
       83 C2 38 83 D1 88 80 76
029:
                                                                 .3.... /..F ,
       5E 1E 33 C9 BA GA GG E8
8B 46 20 GB 46 1E 75 BE
                                  2F 0D 89 46 20 89 5E 1E
 D30:
                                  83 7E 10 01 75 00 8B 46
89 46 06 8D 46 22 8B 5E
                                                                .P .F.u. .
 D40:
       06 48 8B F0 C6 42 22 2D
                                                                 ....+P ..F....
 D50:
       06 03 D8 B8 0B 00 2B 46
                                  86 89 46 WA 89 5E 1C E9
 D60:
                                  -8B-76-3E-8B-04-83-04-04
                                                                    i.t.
                                                                          <u>.v>....</u>.
       -D1--Ø1--83-7E--ØE---00--74--1-7-
 D70:
                                  4E 1E 89 5E 20 EB 14 8B
                                                                ...\.... N...
       8B PØ 8B 5C 02 8B 6C 89
```



```
v>....3..E
                                   FØ 8B 1C 33 CØ 89 46. 2Ø
       76 3E 8B 64 83 64 62 8B
D9Ø:
                                    88 46 06 48 88 FO 8B 5E
       89 5E 1E C7 46 86 88 88
                                                                   DAØ:
                                    ØF 8Ø 8B D9 8A 8F A6 82
       20 8B 4E 1E 33 DB 81 El
DRØ:
                                   26 80 56 1E E3 86 D1 FR
       88 4A 22 B9 Ø4 ØØ RB 5E
DC0:
                                    E3 FF OF 89 46 06 89 56
                                                                             ....F..V
       D1 DA E2 FA 89 5E 20 81
DDØ:
                                                                       .F . F.u..P
                                    46 1E 75 BC 8D 46 22 8B
       1E 89 5E 20.8B 46 20 6B
DEØ:
                                    46 06 89 46 ØA 89 5E ·1C
       SE 06 03 D8 B8 08 00 2B
DEØ:
                                    17 8B 76 3E 8B 04 83 04
                                                                        -..t ..v>....
       E9 40 01 83 7E 0E 00 74
E00:
                                    89 4E 1E 89 SE 20 EB 14
                                                                   ....\....N...
       04 8B FØ 8B 5C 02 8B 0C
                                                                   .v>....3..F
E10:
                                    8B FR 8B 1C 33 CG 89 46
       8B 76 3E 8B 04 83 04 02
E20:
                                   00 8B 46 06 48 8B F0 8B
       20 89 5E 1E C7 46 06 0B
                                                                     .N.3.......
 E30:
                                    E1 67 06 83 C1 36 83 D3
5E 26 8B 56 1E E3 06 D1
       5E 20 8B 4E 1E 33 DB 81
                                                                   00 88 4A 22 B9 03 00 8B
 ESØ:
                                    81 E3 FF LF 89 46 06 89
0B 46 1E 75 BC 8D 46 22
       FB D1 DA E2 FA 89 SE 20
 E60:
       56 1E 89 5E 20 8B 46 20
8B 5E 06 03 D8 B8 0B 09
 E70:
                                    2B 46 06 89 46 0A 89 5E
 E80:
                                    75 95 C7 46 12 C8 99 C7
       1C E9 AF ØØ 83 7E 12 FF
                                                                   F....F.; F.)..
 E90:
                                    46 12 7D 16 8B 7E 3E 8B
       46 0A 00 00 8B 46 0A 3B
 EAØ:
                                    E4 85 CA 74 05 FF 46 0A
04 02 8B FG 8B 1C 89 5E
                                                                   5.<.... ... t.. F.
       35 8B 3C 03 F8 8A 05 30
                                                                   EBØ:
       EB E2 8B 76 3E 8B 64 83
 ECØ:
                                    ØA Ø1 ØØ 8B 76 3E 8B 1C
       1C EB 70 8D 46 22 C7 46
 EDØ:
                                    88 4E 22 EB 56 C7 46 1A
                                                                   .....F. .N".V.F.
       83 Ø4 Ø2 8B ØF 89 46 1C
EEØ:
                                                                   ...O.F....H.F...
                                    00 EB 48 C7 46 1A 01 00
       02 00 EB 4F C7 46 1A 00
EB 41 33 C0 83 C4 36 5D
EFØ:
                                   C3 66 00 FB 0C 65 00 F4 0C 73 00 94 0C 6F 00 03
                                                                   .A3...6) .f...e..
F00:
                                                                   .g...c.. .s...o..
       9C 67 00 ED 0C 63 00 D3
0C 78 00 72 0B 75 00 D0
F10:
                                                                   .x.r.u.. .d.... .
                                    8A 64 90 82 8A BE 29 98
F20:
                                    FF A4 ØB ØD 83 EE 64 79
03 E9 B2 ØØ 8B 46 16 85
                                                                   .;...u....y
.....r..r
.t.;F.}..F..F..F
       2E 3B 84 09 0D 75 05 2E
EF EB BF 83 7E 1C 00 75
F30:
 F40:
                                    8B 46 0A 89 46 16 8B 46
00 83 7E 0C 00 74 3F 8B
       CØ 74 Ø5 3B 46 ØA 7D Ø6
                                                                   .) F..F. .....t?.
F.H...F. x..F..F.
F50:
       ØA 29 46 16,C7 46 Ø6 ØØ
 F60:
                                    78 17 8B 46 06 FF 46 06
       46 MA 48 85 CØ 89 46 ØA
 E70:
                                    FF 46 1C 8A 05 88 04 EB
       8B 76 3C 03 F0 8B 7E 1C
 F80:
                                                                   ..F.H... F.xQ.F..
                                    46 16 78 51 8B'46 06 FF
       DE 8B 46 16 48 85 CØ 89.
 F90:
                                                                   F..... F......F
                                    46 14 88 04 EB E3 8B 46
       46 06 8B 76 3C 03 FF 8B
 FA0:
                                                                  .H...F.x ..F..F..
                                    12 8B 46 06 FF 46 06 8B
       16 48 85 CØ 89 46 16 78
76 3C Ø3 FØ 8B 46 14 88
 FBØ:
                                    04 EB E3 8B 46 0A 48 85
06 FF 46 06 8B 76 3C 03
                                                                   v<...F.. ....F.H.
 FC0:
                                                                   ..F.x..F ..F..v<,
       CØ 89 46 ØA 78 17 8B 46
 FDØ:
                                                                   ....F..
                                    05 88 04 EB DE 8B 46 06
                                                                   .ve...F: 0..6]...
       FØ 8B 7E 1C FF 46 LC 8A
 FE0:
                                    40 83 C4 36 5D C3 83 7E
                                                                   8B 76 40 89 04 8B 46 3A
 FFØ:
                                   ∍00 83 7E 12 14 7E 05 C7
       12 FF 75 Ø5 C7 46 12 Ø6
1000:
                                    8D SE 22 53 8D SE 10 53
8B SE 3E FF 37 ER RE ØB
       46 12 14 00 8B 46 12 40
8D 5E 18 53 FF 76 1A 56
1010:
1020:
                                    8D 5E 22 8B 4F 18 85 C9
       88 E5 88 76 3E 83 94 88
1030:
                                    1C 79 83 P7 5E 86 83 7E
       89 46 0A 89 4E 06 89 5E
1040:
                                    74 06 83 7E 06 06 7D 05
       1A 02 75 11 83 7E 0A 00
1050:
                                    08 74 63 FF 4E 18 33 CB
       C7 46 1A 88 88 83 7F 8A
1860:
                                    03 FF 46 06 B3 7E 1A 00
       89 46 Ø6 83 7E 1Ø ØØ 74
1070:
                                    Ø6 03 D8 8B 46 18 85 CF
       74 21 8B 46 12 40 8B 5F
1080:
                                                                   .^.x..F. . ...tl.F
                                    83 7E 12 00 74 31 FF 46
       89 5E 06 78 03 01 46 06
1090:
                                    00 01 46 06 8B 46 18 85
46 18 3D 63 00 89 46 08
                                                                   ..,.F... ..F..F..
       06 EB 2C 8B 46 12 05 06
                                                                   .y.... F.=c..F.

T..u).F. ;F.T!.

)^.F.H. .F.x..v
16A0:
       CG 79 04 F7 D8 EB 63 8B
10B0:
       7E 03 FF 46 06 81 7E 08 E7 03 7E 03 FF 46 06 83
10C0:
                                    3B 46 06 7E 21 8B 5E 06
       7E BC 00 75 29 8B 46 16
1000:
       29 5E 16 8B 46 16 48 85 CG 89 46 16 78 16 8B 76
10E0:
                                                                   <.F<.F.. ..F....
       3C PF 46 3C 8B 46 14 88 04 FF 46 06 EB E5 83 7E
```

10F0:



```
..v<. F<.
                                  46 3C C6 64 2D 83 7E 1A
       10 00 74 09 8B 76 3C FF
1100:
                                                                          ...yd.v<
                                                                .u...
                E9 E2 ØØ 8B 46
                                  18 85 CØ 79 64 8B 76 3C
              Ø3
1110:
       øø
                                                      40 C6
                                  30 88 FØ 89 46
             89 46 00 40 C6 04
1120:
       8B C6
                                                                ...F<.F. H...F.y.
                                  48 85 CØ 89 46 12 79 Ø3
                       8B 46 12
       Ø4 2E 89 46 3C
1130:
1140:
                                                                    .F.Q. ..F.y..v
                                  CØ 89 46 18 79 ØB 8B
                                                         76
       E9 8F 01 8B 46 18 40 85
                                                                <.F<..0.
                                  DC 8B 46 ØA 48 85 CØ 89
       3C FF 46 3C C6 04 30 EB
46 0A 78 12 8B 76 3C FF
                           30 EB
1150:
                                                                F.x..v<. F<.
                                   46 3C 8B 7E 1C FF 46
                                                         1C
1160:
                                                                .....v <.F<..Ø.
                                      FF 46 3C C6 64 36 EB
       8A Ø5 88 Ø4 EB BF 8B 76
B4 8B 46 18 FF 4E 18 85
                                  3C
1170:
                                  CØ 78 28 8B 46 ØA 48 85
3C FF 46 3C 8B 7E 1C FF
                                                      48 85
                                                                ..F..N..
                                                                          .x(.F.H.
1180:
                                                                ..P.x..v <.F<.
       CØ 89 46 ØA 78 12 8B 76
1190:
                                                                F.........v<.F<...
                                   8B 76 3C FF 46 3C C6 04
       46 1C 8A Ø5 88 Ø4 EB D9
11AØ:
                                   09 8B 76 3C PF 46 3C C6
       30 EB CE 83 7E 12 90 74
11BØ:
                                   89 46 12 79 83 29 82 81
                                                                ...F.H... F.y....
       04 2E 8B 46 12 48 85 CØ
11CØ:
                                                                .F.H...F .x..v<.F
                                   ØA 78 12 8B 76 3C FF 46
       8B 46 ØA 48 85 CØ 89 46
1100:
                                                                ۷۷..... ع....۷۷
                                   Ø5 88 Ø4 EB D5 88 76 3C
       3C 8B 7E 1C FF 46 1C 8A
11E0:
                                                                .F<..0. .F.H...F
                                   8B 46 GA 48 85 CØ 89 46
       FF 46 3C C6 04 30 EB CA
llfø:
                                   3C 8B 7E 1C FF 46 1C 8A
       ØA 78 12 8B 76 3C FF 46
1200:
                                                                 .....v< .F<..0.V
                                   FF 46 3C C6 04 30 8B 76
       Ø5 88 Ø4 EB Ø9 8B 76 3C
1210:
                                                                <.F<... F.H...F.
x(.F.H...F.x.v<
.F<...F
                                   46 12 48 85 CH 89 46 12
89 46 0A 78 12 8B 76 3C
       3C FF 46 3C C6 04 2R 8B
78 28 8B 46 0A 48 85 C0
1220:
1230:
                                   1C 8A 05 88 64 EB D8 8B
                        1C FF 46
                    7.E
           46
              3C 8B
       FF
1240:
1250:
                                   EB CD 88 76
                                                3C 8B C6 89
       76 3C EF 46 3C C6 84 38
                                                                F.A.E. ... F<y.
... F<... - ... v<
.F<..+ F ... F.H.
                                   18 85 DB 89 46 3C 79 0D
        46 ØØ 4Ø C6 Ø4 45 8B 5E
1260:
                                   F7 5E 18 EB 09 8B 76
                                                         3C
        8B FØ FF 46 3C C6 Ø4 2D
1270:
                                   9A 0B 00 8B 46 0A 48 8B
        FF 46 3C C6 64 2B C7 46
1280:
                                                                ØA ØØ 99 F7 PB 83 C2 3Ø
        FR 89 46 GA 8B 46 18 BB
1290 !
                                   FB 89 46 18 83 7E 0A 09
        88 52 22 8B 46 18 99 F7
12A0:
                                   8B 46 NA 3D ØB NØ 7D 12
        7F D9 83 7E 18 66 75 D3
12B0:
                                                                .v<.F<.F ....C"..
....u) .F.;F."!
...) ... .H...F.x
                                   ØA 8B F8 8A 43 22 88 Ø4
              -3C FF 46 3C FF 46
        8B 76
12C0:
                                   8B 46 16 3B 46 06 7E 21
        EB E6 83 7E 0C 01 75 29
1200:
                                   16 48 85 CØ 89 46 16 78
        8B 5E Ø6 29 5E 16 8B 46
12E0:
                                                                 ..v<.F<. F....F..
                                   46 14 88 94 FF 46 96 EB
        10 8B 76 3C FF 46 3C 8B
12F0:
                                                                 ..F..v@. ..F:@..6
                                   04 8B 46 3A 48 83 C4 36
        E5 8B 46 06 8B 76 40 89
1300:
                                                                 1.U....F...F.
        5D C3 55 83 EC 68 8B EC
                                   C7 46 84 88 08 88 46 84
1310:
                                   F7 EB 8B D8 8B 87 B6 Ø2
                                                                 =..}.... .....
        3D 10 00 7D 15 BB 0C 00
1320:
                                                                 EB E3 83 7E 84 18 75 8E
        25 00 80 74 05 PF 46 64
C7 06 76 03.17 00 B8 FF
1330:
                                   FF 83 C4 H8 5D C3 8B 46
1340:
                                                                 92 46 40 50 FP 76 BC E8
        Ø4 BB ØC ØØ F7 EB Ø5 B6
1350:
                                                                 .....t. ..v....
                                   C7 Ø6 76 #3 Ø2 ØØ B8 FP
        C6 0B .8B E5 85 CØ 74 ØE
 1360:
                                   00 8B 5E GE 81 E3 90 80
                                                                 FF 83 C4 Ø8 5D C3 B8 ØD
 1370:
                                                                 .F.t..N. ...P....
                                   00 01 8B 46 B4 BB 8C 00
                  74 05 81 4E 06
 1380:
        89
           46 96
                                   FF 76 06 FF
                                                76 04 E8 F0
           EB 05 B6 02 40 40 50
 1390:
        F7
                                                                 ....x... t...v...
                                   74 0P. C7 46 76 63 65 60
        ØC 8B E5 A3 78 Ø3 85 CØ
 13A0:
                                   B8 84 88 58 FF
                                                   76 04 E8
        88 PF FF 83 C4 Ø8 5D C3
 13BØ:
                                    SE BE E7 C3 OH NO H9 46
           0C 8B E5 88 00
                            80 8B
 13C0:
        CF
                                                                 .t..N...
                                    81 66 GR PP 7F 83 7E GE
           74 GA-81 4E 06 00 10
 13DØ:
        36
                                                                 .u..N.,@
                                                                          ...~..u.
                                    EB 0B 83 7E 0E 01 75 05
        00 75 07 81.4E 06 00 40
 13E0:
                                    F7 6E 04 8B F6 8B 46 66
                                                                 13F0:
        81
           4E 06 00 20 B8 0C 00
                                   C4 88 5D C3 55 83 EC 68
 1400:
        89 84 B6 62 8B 46 64 83
                                   46 84 3D 18 08 7D 15 BB
                                                                  ...F.... F.=..}..
        88 EC C7 46 94 99 98 8B
 1410:
                                    B6 02 25 00 80 74 05 FF
75 0F C7 06 76 03 17 00
                                                                           ....t..
                                                                   ØC 00 F7 EB 8B D8 8B 87
 1428:
                            04
                               10
            Ø4 EB E3 83 7E
 1430:
         46
                                                                   ....]. .F.....
                                    -8B-46-04-BB-0C-00_E7_EB
        B8 FP-FF-83-C4-08-5D-C3-
 1440:
                                    ØE FF 76 ØC E8 B7 9A 8B
                                                                  ... eep.v ..v....
         05 B6 02 40 40 50 FF
                               76
 1450:
                                                                  ...t...v ......
                                    03 00 00 BB FF FF 83 C4
         E5 85 CØ 74 ØE C7 Ø6 76
 1460:
```

Figure 1 .



```
.]....F.
                                ØE 81 E3 ØØ 86 89 46 Ø6
       08 5D C3 B8 0D 00 8B 5E
1470:
                                 46 04 BB AC 00 F7 EB 05
       74 Ø5 81 4E Ø6 ØØ Ø1 8B
                                                              ..eep.v. .v....
1480:
                                 FF 76 94 PR P3 6B 8B E5
       B6 02 40 40 50 FF
                          76 96
                                                              .x...t.. .v.....
1490:
                                 96 76 03 95 99 B8 FF FF
       A3 78 03 85 C0 74 0E C7
                                                              ...] .... P.v....
14 AØ:
                                 50 FF 76 04 E8 D2 0B 8B
       83 C4 Ø8 SD C3 B8 Ø4 ØØ
       E5 8B 46 64 BB 6C 66 F7; EB 8B D8 89 66 86 89 8F
14BØ:
                                                              ..F.... .....
                                                              ...N.... ..F.t...
                                 80 89 46 00 74 06 81 8F
14CØ:
       B6 02 8B 4E 0E 81 E1 00
                                                              ....F....].U...
14DØ:
                                 C4 08 5D C3 55 83 EC 08
       B6 02 00 10 8B 46 04 83
                                                              ...F...x'.=..-..
                                Ø5, 3D ØF ØØ 7E ØE C7 .06
14 EØ:
       8B EC 8B 46 ØC 85 CØ 78
                                                             v.................
14FØ:
                                C4 Ø8 5D C3 8B 46 ØC BB
       76 03 09 00 B8 FF FF 83
       GC 00 F7 EB 8B D8 81 C3 B6 02 8B 07 A9 00 80 89
1500:
                                ØE C7 Ø6 76 Ø3 Ø9 ØØ B8
                                                              .t.8. t ... V....
1510:
       SE 04 74 05.25 00 20 74
                                                              ....].. F..v..D.
1520:
                                 46 10 8B 76 04 89 44 06
      FF FF 83 C4 Ø8 5D C3 8B
                                                              .F..D... Ø.....
1530:
                                 30 8B 1C 81 E3 00 10 89
       8B 46 ØE 89 44 ØA B8 Ø1
                                                              P.t..N. ..F....P
                                 01 8B 46 04 05 06 00 50
1540:
       46 06 74 05 81 4E 06 00 FF 76 06 FF 76 0C E8 28
                                                              .v..v..( ....x.Hu
                                0B 8B ES A3 78 03 48 75
1550:
                                                              .3....]...>x..t..
                                 83 3E 7B 03 00 74 6E C7
1560:
       Ø7 33 CØ 83 C4 Ø8 5D C3
                                                              1570:
                                 83 C4 Ø8 5D C3 8B 76 Ø4
                                                              D...]. U....F
...x.=. T...V...
       06 76 03 05 00 B8 FF FF
8B 44 08 83 C4 08 5D C3
                                 55 83 EC 08 8B EC 8B 46
1580:
                                 7E 0E C7 06 76 03 09 00
1590:
       ØC 85 CØ 78 Ø5 3D ØF ØØ
15 NØ:
                                 8B 46 0C BB 0C 00 F7 EB
       B8 FF FF 83 C4 Ø8:5D C3
                                                              *.@t...v ......
1580:
                                 A9 00 80 89 5E 04 74 05
       8B D8 81 C3 B6 02 8B 07
15C0:
                                03 09 00 B8 FF FF 83 C4
       25 00 40 74 0E C7 06 76
                                 Ø4 89 44 Ø6 8B 46 ØE 89
                                                              .]..F..v ..D..F..
1500:
       08 5D C3 8B 46 10 8B 76
                                                              15E0:
                                 E3 00 10 89 46 66 74 05
        44 9A B8 92 39 8B 1C 81
                                 05 06 00 50 FF 76 96 FF
01 80 A3 78 03 75 07 33
15F0:
       81 4E 06 00 01 8B 46 04
                                                              v..|...= ...x.u.3
1600:
       76 0C E8 7C 0A 8B E5 3D
                                                              ...]..> x..t...v
1610:
                                 78 03 00 74 0E C7 06 76
       CØ 83 C4 Ø8 5D C3 83 3E
Ø3 Ø5 ØØ B8 FF FF 83 C4
                                                              1620:
                                 68 5D C3 8B 76 04 8B 44
                                                              ....].U. ....F..
1630:
                                 EC ØA 8B EC 8B 46 GE 85
       08 83 C4 08 5D C3 55 83
C0 78 05 3D 0F 00 7E 11
                                                              1640:
1650:
                                                              ...... ..u...v.
1660:
                                                              .03.3... y.K.F...x
1670:
1680:
1690:
                                                              ....x ..7.F.P.
 16A0:
        ØE E8 DD Ø9 8B E5 A3 78
                                                              .!P.v... ....x.."
                                 09 8B E5 A3 78 03 EB 22
FF BB FF FF B3 C4 0A 5D
1.6BØ:
        08 21 50 FF 76 0E EB CB
 16CØ:
                                                              ..v.... ......l
        C7 06 76 03 16 00 B8 FF
                                                              .=..t.=. .t.=..t.
1600:
                                  00 74 BB 3D 00 80 74 A2
        C3 3D 02 00 74 D5 3D 01
                                                              ...>x..t ...v....
                                  11 C7 06 76 03 05 00 B8
16EØ:
                                                              ]..F..F.
        EB DR 83 3E 78 93 90 74
       FF FF BB FF FF B3 C4 0A 5D C3 8B 46 06 (11 46 10 8B 5E 08 11 5E 12 8D 46 10 50 B8 66 26 50 FF 76
16FØ:
 1700:
 1710:
                                  83 85 C# 74 11 C7 86 76
        0E E8 6D 09 88 E5 A3 78
                                                              .p...p.v ..E...x
 1720:
                                  FF 83 C4 6A 5D C1 8D 46
ØR E8 45 89 8B E5 A3 78
        03 05 00 B8 FF FF NH PF
 1730:
                                                              ...t...v
        10 50 B8 08 00 50 FF
                             76
 1740:
                                  03 05 00 108 FF FF BB FF
        Ø3 85 CØ 74 11 C7 66 76
 1750:
                                  12 8B 5E 18 83 C4 8A 5D
        FF 83 C4 WA 5D C3 8B 46
                                                              .u.... F...x.=
 1760:
                                  46 8A 85 CO 78 85 3D 8F
        C3 55 83 EC 86. 8B RC 8B
                                                              ,~...v.. .....i
 1770:
                                  00 B8 FF FF 83 C4 06 5D
        .00 7E 0E C7 06 76 03 09
                                                               ..F.....
 1780:
                                  EB 8B D8 8B 87 B6 H2 25
        C3 88 46 0A HB 0C 00 P7
                                                               ..u...v. ......
 1790:
                                  09 00 BR FF FF B3 C4 06
        88 75 88 C7: 86 76 83
                                                              17AG:
                                  GA E8 D5 G8 8H E5 HB GE
        5D C3 88 05 00 50 FF 76 00 53 FF 76 0A 89 46 02
 1780:
                                  E8 C6 68 8B E5 89 46 64
 17C0:
        8B 46 8A BB OC 86 P7 EB 8B D8 33 C6 89 87 B6 62
```

17D0:



17EØ:	83 71	· 42	aa	75	a۶	яз	7E	Ø A	aa	74	ØΩ	BR	FF	FF	83	·ut	_
17FØ:	C4 86									C3					8B	.1.31.0	
1800:	EC 83													8B			
	10 09													89		u	5
1810:							-							76		vtK.v	
1820:	ØA 89															.D^.;. w/;.u	• .
1830:	8B 44					313			2F						04		
1840:	8B 76													46		.v vD.+F	-
1850:	89 44													66		.D FF.).	
1860:	Ø3 8E													8B			:
1870:	89 46									GA					58	.F	P
1880:	E8 E/	_								89				Ø5			•
1890:	C4 Ø													10].31.0	•
18AØ:	EC 83													C3		F	•
18BØ:	46 14													5 E		F K	•
18CØ:	D1 E3													82		F	•
18DØ:	BB. 86	J Ø3	8B	J B	89	46	ВC							813		FN~	
18EØ:	02 85	CØ	75	Ø3	E9	Dl	ØØ	8B	FØ	8B	5C	Ø2	Dl	. E3	Dl		•
18FØ:	E3 Ø3	C3	3 B	• 76	ØC	89	46	04	76	18	8B	C6	8 B	76	ØA	; vF .VV	•
1900:	89 04					44				88					33	FDv	3
1910:	CØ 83					83	46	92	3 B	46	ØC	.75	20	8 B	FØ	FDv	•
1920:	8B 10							46	ØE	Ø3	44	. 02	89	45	Ø2	T FDE	
1930:	8B C7	8B	76	Ø6	89	Ø4	33	CØ	83	C4	10	5D	C3	88	46	v3]	F
1940:	ØA 3F	3 46	84	73	ØF	88	46	ØE	29	ø6	82	Ø3	B8	FF	FF	.;F.sF .)	
1950:	83 C4	10	5D	C3	8B	46	ØA	3 B	46	34	75	46	8B	76	02]F. ;F.uF.v	•
1960:	8B Ø4	85	CØ	74	16	8B	SE	ØC	3 B	DB	76	ØF	8 B	46	ØE	t^ .;.vF	•
1970:	29 Ø6	82	03	в8	FF	FF	83							ØE)	
1980:	76 92	01	44	02	8B	Ø4	85	CØ	74	11	88	5 E	ØC	3B	D8	vDt^.;	•
1990:	75 Ø2	\ 8B	47	02	Øľ	44	Ø2	8B	Ø7	89	04	33	CØ.	83	C4	uGD3	
1980:	10 50	C3	8B	46	Ø2	8B	5E	04	8B	FØ	88	ØC	89	46	96	.]F^F	•
19BØ:	89 4E	E Ø2	89	5E	Ø8	E9	25	FF	8B	46	Ø٨	8 B	76	Ø 6	89	.N^&Fv.	
1900:	Ø4 33													C3		.3 FD	
1900:	C4 10														86		
19EØ:	03 85					89								C 7			
19FØ:	99 99	_				47				Ø2				83		G].U.	
1A00:	Ø8 8E													ØØ	_		
lAlg:	46 06													FF		Fv S	
1A20:	C3 89					8B				Ø8				46		F.u]F	
1A30:	C7 Ø6													0 A			
1A40:	ES BE					74				86				EA		;.te.	
1A50:	82 FE					g8								EC		3) .0	
1A60:	82 03			_	-	Ø2				83				EC			
1A70:	4E Ø					33								46		Nu.3. 3E	
1A80:	0B C													.8B		u.3.3N	
1A90:	02 BE													33		y3	
laag:	89 76								-	-				D9		.v.3y	
labg:	75 10								-					D6		ux.,	
1ACØ:	F2 72													21		.r.+.COu .3!	
ladø:	10 00													3B			
IAEØ:	72 09								_							;.E.u.;	
	-														CO		
larg: lbgg:	F7 46													F7		.Pt	
_1B10:									83					04	_5D _8.B	t	J
1B20:	7E 07															0.3 <u> </u>	<u>:</u> _
1B30:	04 20													89	72:	GNu	E T/
1830: 1840:																.+unuN	4
TD4A:	Ø8 89	16	O.Y	C 3	88	40	OV	ŊΙ	EU	87	40	UA	пH	46	N R	FFF	٠



```
...F..F. ...F..F.
                                     D1 DØ 89 46 86 8B 46 04
        D1 D0 89 46 08 8B 46 06
1B50:
                                                                      ...F.... 3.....
                                      33 C9 D1 E0 D1 D1 D1 E0
        D1 DØ 89 46 84 C3 8B D8
1B60:
                                                                      EØ D1 D1 C3 33 C9 BF Ø6
        D1 D1 03 C3 83 D1 00 D1
1878:
                                     DC FF 8B 5B 84 83 C3 83
        00 8B 43 04 89 4B 64 E8
1 080:
                                                                      ...c.ooy ...r..
                                      E8 C3 BB 46 84 BB 5E 86
        D1 00 89 43 04 4F 4F 79
1090:
                                                                      .N..V..........Nu
                                     DI DB D1 D9 D1 DA 4E 75
        8B 4E ØB 8B 56 ØA D1 E8
1BA0:
                                      4B 08 89 56 0A C3 55 83
        F5 89 46 Ø4 89 5E Ø6 89
1BBØ:
                                     00 C7 46 OC 00 00 BB 76
                                                                      .(...P.. ..F....v
        EC 28 BB EC C7 46 00 00
1BC0:
                                      81 4E 00 00 80 25 FF 7F
                                                                      .D...y. N...%..
        2C 8B 44 06 85 CØ 79 05
1BD0:
                                                                     u...|.u ..|.u..<
t|...-...
                                     89 0B 7C 82 75 84 88 3C
        75 10 8B F8 0B 7C 64 75
1BE0:
                                     03 89 46 0K 8B 0C 88 5C
D2 BF 05 00 D1 EE D1 D8
        74 7C B1 04 D3 E8 2D FE
1BF0:
                                                                      ..D..t.3 ......
        02 8B 44 04 8B 74 06 33
1C00:
                                                                      ....Ou ....F..
                                     F3 ØD ØØ 80 89 46 04 89
C7 46 ØC ØU ØU 8B 76 ØE
        D1 DB D1 D9 D1 DA 4F 75
1C10:
        5E 06 89 4R 08 89 56 0A
8B CE 85 F6 74 69 79 10
1C28:
                                     83 C6 Ø3 78 13 BE Ø1 ØØ
                                                                      ....tiy. ...x....
1C30:
                                     ES C6 FE FF 46 MC EB OF
                                                                      .w..F... ....F...
        E8 57 FF FF 46 GE EB E5
1C40:
                                                                      ....v..A ....N...
                                     FF E8 20 FF FF 4E GC F7
        BE 04 00 01 76 UE E8 41
1050:
                                     ØE E8 D9 FE E8 F1 33 F6
                                                                      P...u..N .....3.
        46 04 00 80 75 C7 FF 4E
1C60:
                                                                      .N.. @3.. F.. @ul.F
        81 4E 00 00 40 33 C9 F7
04 0B 46 06 75 08 8B 46
                                     46 89 90 40 75 21 8B 46
88 8B 46 8A 74 11 E8 EB
1C70:
                                                                      ..F.u..F ..F.t...
1C80:
                                                                      ...u... u..N....
                                     75 HS FF 4E HC ER EF BR
        FE 85 C9 75 WA 83 FR 81
1090:
                                     14 7C CA C7 46 18 81 88
                                                                      .0.J.F... | ..F...
        C1 30 88 4A 14 46 83 FE
1CA0:
                                     74 ØB B9 61 UU 8B 46 ØC
                                                                      .f0.v... t....F.
        8B 46 30 8B 76 2E 85 C0
1CB0: -
                                                                      11..x-... ) %...
                                     83 PE 12 7D 25 8D CE 8A
        48 03 FØ 78 2D N9 14 00
ICCH:
                                                                     B...<: | . .B.G.B..
B.Ny..F. N...G.t
.A...G.v. 3..B...C
                                     C6 42 15 30 FK 42: 14 8A
        42 15 64 65 3C 3A 7C 1A
lcou:
                                     EF 4E 10 83 7E 30-00 74
        42 14 4E 79 EF FF 46 HC
ICEB:
                                     33 DB 8A 42 14 88 05 43
        01 41 8B 7E 36 8B 76 10
47 3B D9 7D 11 46 83 FF
1CF0:
                                                                     G; .).F... | ..G..G
C; .|.3. .F...t..
F..Qu.II. v4...F..
                                     14 7C RF HO 30 HB 05 47
F7 46 00 00 HO 74 UB F7
1D00:
        43 3B 5E 2E 7C F7 33 CA
1010:
                                     76 34 89 84 8B 46 8C 8B
        46 00 00 40 75 01 48 88
1D20:
                                                                     v2...F. @t.3...
.()..., t...F,...F,
....vø.F ........N
                                     48 74 62 33 C9 8B C1 83
1030:
        76 32 89 84 F7 46 88 88
                                     74 09 8B 46 2C C7 46 2C
12 FF 4E 2E 75 06 H1 4E
        C4 28 5D C3 83 7E 2C 90
1D40:
        88 88 C3 FF 56. 38 89 46
1050:
                                     08 74 03 BB PF FF C3 55
        00 00 08 C3 F7 46 00 00
83 FC 28 8B FC 33 C0 89
89 46 0E 89 46 04 89 46
B2 FF 3C 30 75 07 81 4E
                                                                      ....F.. .t...
1060:
                                     46 OU 89 46 OC 89 46 02.
                                                                      ..(..3.. F..F..F.
1070:
                                                                      .P. F. F . F . F .
                                     06 89 46 0B B9 46 0A EB
inne:
                                                                      60 00 20 EB F2 3C 2D 75
                                                                      1090:
                                     FP 3C 3B 7C 3B 3C 39 7F
10 8B 46 02 29 46 8C F7
        08 81 4E 08 00 80 E8 9B
IDA0:
        34 81 48 88 08 28 89 46
LDB8:
                                                                      F...t..F ......F
                                     BC EB OB EB AE FD BB 46
        46 04 00 E0 74 05 FF 46
IDC0:
                                     56 08 00 81 56 06 00 83
                                                                      ..... V...V...
        10 25 UF 00 01 46 0A 83
LDD0:
                                                                     V....C.u ..F...uB
        56 84 88 EB C1 3C 2F 75
                                     9C 8B 46 92 85 C9 75 42
IDE0:
                                                                      .F...<Et .<eu5.D.
                                     04 3C 65 75 35 E8 44 FF
        FF 46 02 EB B1 3C 45 74
IDF0:
                                                                      <+t.<-u. .N....4.
                                     81 4E 00 00 10 E8 34 FF
LEGO:
        3C 2B 74 09 3C 2D 75 08
                                     24 OF 89 46 10 80 46 OE
OF 30 FF OF 72 OF DL E8
                                                                      <u|.<9.. $..P..F.
        3C 30 7C 1E 3C 39 71 1A
lE10:
                                                                      .C..F..F .=..r...
        E8 43 FD 93 46 18 89 46
1E20:
                                     0F 33 CU BH 76-32 89 64
        EB F4 F7 46 89 89 20 75
1E30:
                                                                      .F...(). .F..F..
t...F.. F..F..F.
                                     88 46 88 87 46 69 60 10
46 64 88 46 66 88 46 88
        8B 46 12 83 C4 28 5D C3
74 82 E7 D8 81 46 8C 8B
LE48:
LESØ:
                                                                      .F.u.... .F.>..F.
        0B 46 0A 75 03 E9 80 00
00 80 75 08 E8 CE FC FF
                                     C7 46 HR 3R U4 F7 46 84
1E60:
                                                                      ..... N....P...
                                     4E BE EB P1 BB 46 BC 85
1E70:
                                    81 76 BE 28 BC FD 88 ED
FC FF 46 BC EB CF 8B 46
                                                                      .t.x.... .v.....
        CO 74 1B 78 11 BE 84 00
1 E80 :
                                                                      ..N .... x ... F .... F
        FC FF 4E 9C EB D7 E8 78
1E90:
                                                                      ...xλ=...7....F
                                     7F 37 B1 84 D1 E8 89 46
        DE 85 CU 78 41 3D FF 97
1EAG:
                                     4E 08 BB 56 0A 8A D6 8A
1EBO: . 0E 8B 46 04 8B 5E 06 8B
```



```
PI 8A CD 8A EB 8A DF 8A FR 8A C4 BF 01 00 Dl EB
LECG:
                                                                .....nu .l...
                                   PS 25 OF HU OB 46 OP PR
       D1 DB D1 D9 D1 DA 4E 75
                                                                 .....3. 3.7.3..v
LEDG:
                                   33 DB 33 C9 J3 D2 BB 76
       0D BB P0 7F EB 02 33 CO
LEE0:
                                                                4.P...t. ....D..\
                                   OD 88 89 44 06 89 5C
       34 87 46 80 80 80 74 63
LEFØ:
                                   BB 76 32 B9 94 BB 46
       64 89 40 82 89 14 88 61
1 20 0 :
                                   EC 82 80 EC C6 46 61 16
                                                                 ...(].0.
       12 83 C4 28 5D C3 55 83
1F10:
                                                                .F..F... U.....F
                                   55 83 EC 82 8B EC C6 46
       8B 46 GA 89 46 GB EB GA
1E20:
                                  BB R5 85 CH 75 G4 F7 DG
G7 AB 80 75 16 8B D3 8A
                                                                 ...v...
       01 0F FF 76 86 E8 C4 85
LF30:
       EB 25 8B 08 8B 7E 08 8A
1F46:
                                                                f.:!..t. S.e....
                                   53 E8 65 07 8N E5 B8 FF
       66 01 CD 21 84 C0 74 0B
1F50:
                                                                ....3.. ..1.0...
                                   C4 02 5D C3 55 8B EC FF
       FF EB 04 89 1D 33 C0 83
1F60:
                                                                CØ 75 84 17 DØ 5D C3 8B
       76 04 E8 87 05 8B E5 85
D8 8A 07 A8 80 75 1B 8B
1F70:
                                   D3 B4 13 CD 21 84 CØ 74
                                                                ....u.. ......t
1F80:
                                   FF FF 5D C3 53 E8 21 07
                                                                ØB 53 E8 2C 97 8B E5 B8
1F90:
                                   B9 07 00 88 77 2E 81 FE
                                                                ..... vo. ....
       8B ES 33 CØ 5D C3 51 56
1FA0:
                                                                ..t.A... t.A...
                                   01 74 48 41 81 FE 00 02
       80 00 74 0F 41 81 FE 00
1FBØ:
                                   D1 DA E2 FA 8B C2 8B D6
                                                                t.AN#... .....
       74 01 41 4E 23 F2 D1 E8
1FC0:
                                   8B 77 2E 81 FE 80 00 74
                                                                 ^Y.QV... .w.....t
       SE 59 C3 51 56 B9 07 00
1FDØ:
                                                                41 81 FE 06 02 74 61 41
92 5E 59 C3 C6 46 03 27
        ØF 41 81 FE ØØ Ø1 74 Ø8
1FEG:
       33 D2 D1 EØ D1 D2 E2 FA
1FFØ:
                                   8B 47 30 3B 47 2E 75 13
        EB 04 C6 46 03 28 52 51
2000:
                                   32 89 47 21 C7 47 23 80
                                                                 .G.....G 2.G!.G#.
       89 47 ØE B9 Ø1 ØØ 8B 47
ØØ EB 14 C7 47 ØE Ø1 ØØ
2616:
                                                                 ....G....G2....W
                                   8B 47 32 E8 A5 FF 89 57
2020:
                                                                 1.G#.00. ....4.1
                                   1A 8B D3 83 C2 34 CD 21
        21 89 47 23 8B 4F 30 B4
2030:
                                                                 ...f..!2 .YZ.;G2u
                                   E4 59 5A C3 3B 47 32 75
        8B D3 8A 66.03 CD 21 32
2040:
                                   84 CO 74 OC E8 A3 FF 85
                                                                 .3..P.G% ..t....
        03 33 C0 C3 50 8A 47 25
2050:
                                   88 47 25 58 89 47 32 3B
                                                                 .t.x......G$X.G2;
F.r.t.3. .G8..F..
        CØ 74 Ø5 58 B8 FF FF C3
46 Ø6 72 13 74 Ø6 33 CØ
2060:
                                   89 47 30 C3 8B'46 08 89
2070:
                                                                 Ga..u... G..GØ.1.
                                   47 2E 89 47 30 E8 6C FF
        47 30 85 C0 75 07 C3 8B
                                                                 .U..... v.....
2080:
                                   76 12 81 E6 0F 00 83 FE
        C3 55 83 EC 0C 8B EC 8B 0D 74 0B 8B 7E 10 D1 E7
2898:
                                   8B 9D 88 03 8A 07 85 F6
28A8:
                                   75 03 E9 F5 00 83 FE 02
                                                                 u..... u.....
        75 03 E9 AA 60 83 FR 01
20B0:
                                                                 u..g.... u..b....
                                   75 03 EB 4C 90 83 FE 05
        75 Ø3 E9 71 Ø2 83 FE Ø4
20C8:
                                                                 u..f.... u.....
                                   75 03 E9 A8 00 83 FE 0D
       ·75 63 EB 66 96 83 FE 08
20D0:
                                                                 u..... u..$....
                                   75 GC PB 24 90 83 C4 ØC
        75 03 EB 1C 90 83 FE 0E
28E0:
                                                                 1.3....
                                   FF EB F2 B8 01 00 EB ED
        5D C3 33 CØ EB F7 B8 FF
20 FG:
                                   D1 E7 89 85 88 63 EB E2
        8B SE 14 8B 07 8B 7E 10
2100:
                                                                 S.........u.3..G
(.GE.G%...G2.G..
                                   A8 R0 75 1C 33 C6 R9 47
        53 E8 AD 05 RB E5 RB DA
2110:
                                   DØ 89 47 32 88 47 10 89
        28 89 47 26 88 47 25 F7
2120:
                                                                 G*.G..G, ...u.3.
                                   EB B8 A8 86 75 1F 33 C9
        47 2A 8B 47 12 89 47 2C
2130:
                                                                 .G%..t.. ....t.A.
                                   B8 PE 85 CU 74 O1 41 8B
        8A 47 25 84 CØ 74 UB ER
                                   9D 85 C9 75 99 EB 93 A8 02 3B 47 2C 72 8C 75 86
                                                                 ....!..u ...u....
.u....E .;G,r.u.
2140:
        D3 B4 16 CD 21 B4 C6 75
86 75 93 86 7F 14 86 45
 2150:
                                                                 ..;0*v.. |....G(.
06.m...u &.~..F..
2160:
                                    7C FF 8B 8D 89 47 28 89
        8B 00 3B 4F 2A 76 03 E9
 2170:
                                    26 8B 7E 14 F7 46 12 86
        4P 26 E9 6D FF A8 80 75
 2180:
                                                                 .u..G(.E ..GE...Q
                                    02 8B 47 26 89 05 89 51
        61 75 8E 8B 47 28 89 45
 2190:
                                                                 ..a,.E.. G*...C..
                                    47 2A 89 05 E9 43 FF E9
        PF 8B 47 2C 89 45 02 8B
 21A0:
                                   76 14 BH UC R5 C9 78 20 74 LC RA 67 U1 84 E4 74
                                                                 n...t_.. v.....x
        44 FF A8 88 74 SF FC 8B
 21BG:
                                                                 .|..P... t..g...t
        8B 7C 84 F7 46 L2 86 81
 21C0:
                                    8B 8C 89 4C 62 E9 12 FE
                                                                 ...... .........
        8F E3 85 CD 21 AA E2 FB
 21D0:
                                                                 ...... .g...t..
        E9 18 PP R9 10 PP R3 P0
21 3C 8D 75 17 H2 UA 88
                                    8A 67 81 84 E4 74 FL CD
 21E8:
                                                                 !<.u... .G.g...t
                                    15 47 8A 67 02 84 E4 74
 21F0:
                                                                 ..!+|..| ....<.t.
                                    42 E9 E6 FR 3C LA 74 DO
        62-CD-21-28-/C-64-89-7C
                                    8B 8C 85 C9 78 C5 74 C8
        AA E2 DC EB C3 8B 76 14
 2218:
                                                                  .G(.W&...;G,r.
                                    15 00 00 30 47 2C 72 0D
        BB 47 28 BB 57 26 U1 D1
 2220:
```



2230:	75 (95	38	57	2٨	76	06	813	4 P	2A	2B	4 F	26	В9	4C	82		u.;W*v 0	
2240:	813	47	20	ЯR	57	26	KB	รม	FD	BB	7C	44	BB	F2	119	46		. (.aw.) .	
2250:	84 8		47	2C	11 13	57	2 A			FD	80	46	06	.40	56			G,.W*. F.	V.
2260:	8B 4				E6		HS.		75	4 /	811	47	2 F.		46			.Fu	J.GF.
2270:	00 6				313		7 K		28	CH	89	4 F	UΛ.	813	6:8	03			N
	F3 8			34		F3	۸1		412	BΛ	63	(17			۲P			4 N	
2280:	94 1				5:7		1111		28	813	76	14	813	4C	02	03		W4.G (.vL
2290:					119	57	26		47			46			Ul	74		WE. C	(.FE
22A0:	Dl·				69	_	FE					811		2Ά	30	47		>? F	G*;G
2280:	96 1		38			-	30			74	LΛ		4.7	28	HB	57		&uG,;G (tG(.W
22 CØ:	26										CH	75		83	116	34		6s.	u4
22D0:	26 1					F2	88	73			#2	813	74	04	8B	FE		Fv	Lt
22 EØ:	8 V (8 ន	46		ប្រ	76	14				36			OB			3,.14 .	t/<.u
22F0:	33 1			E3		۸C	40	302	•••	74	31%			λÁ	EB			BIC.t. N	JÁ
2300:	BE !	AC	42	49	3C	ďλ	71	#5			41				110			uG &	. W(
2310:	80 7	7 E	02	ØΛ	75	ŊΛ	กา	47	26	01	83		28	00				v.)T	v +1
2329:	λλ [3 B	76	14	29	54	#2	E9	CB	F.1)			14		7C			. =	
2330:	89	7C	82	E9.	BC	P.D	ΛB	80	74	47	811	7 E			an				· · · · ·
2348:	75 6	-	£7		12	30	0.1	74	18	ЯA	67	04	1114	E4	74	ВO		u.Ft.	
2350:	E3 (46	CD	21	E2	F9	813	ØD	89	41)	02	F: 9	91		E.l.	M
2360:	FD I						B 4	E4	74	EF	BΛ.	14	46	80	F٨	ØΛ		g t	
	75 (21	132		CD		£2	EE	EB	DB	F:9	75		u!	!u
2370:	ED 8			14		ØC.				F4	74	CD	Ch	46	132	ØØ		X	.tF
2380:				00	86	813	47	28	• -	57		EH		FC	89	46		.FG(.	W&F
2390:	C7 4						នក	57		E8		F.13		46	U 6	89		G,.W *	F
23A0:				8 B		813		64			FC	85		75	NE	C6		VtF	
2380:	56 (46			00	213				7 E		G1GF	+.;
23C0:	47	25	Ø L	811	47					FB		C7	34	FC	_	45		.+N	4F
23D0:	07												33			46		t N	03F
23 F.Ø:	12 (74		F3	λ4	88			83				30	EB		G2;F.r .	
23F0:	84 8	B 13	47	32	313	46	96	72			47		80			FF		<.u	F.N
2460:	B4 /	AC	3C	ØΛ	75	ØP	811	7 E			74	09		, 13.0	an			F E F	
2410:	46 (00.	ee.	46	Øλ	λλ	8 8	46	Ø2	1.2	Еб		4 K		E3	ØC			
2420:	2B (34	3 B	7 F	2 E	74	C2	EB		813		26	818		+4; t	
2430:	47	_	813		14	80	ЯC	Ø3	413	(4 (1	ค๑	4C		93	D1	15		G(.v N	
2440:	80 (89	57	26	89	47	28	313	47	2C	72		• -	Ø 5	313		W&.G(;	G, F. U.;
2450:	57			ĩi	89	57		89	47	2C	88	49	FB	85	1)2			W*v. W*. G	, . I u
2450:		BB			89	57		E9 -		FC	69	89	FC	55	83	EC		W W(I	
2470:	96 8					AB	03		75	2λ	PP	36	24	82	E.8	6 B		> u	65K
2470:	02 6				Cß	λ3	λß			68	BØ	PP	FP	83	C4	86	•	u	
2490:	5D (83		EB	813		λ3	۸۸	0.3	89	1E	ΛE	øз		1	• • • • • •
	89						ØA	30	75	ØB	118	F.F.	۲F	8.3	C4	Ø6		u	
24 AØ:	5D (•	18	48		EB	311	06	AF:	03	89	46		1	.;F
2480:	02					FF	83	C4			C3			62	29	06		.v]F.).
24 C0:	AE (Dl	EØ		5 E		нЗ		8B	46	94			îF.
2400:							06	5D			AB			λ8	03	8 B			U
24 EØ:	89 1					C4				93		C3	55		EC	11			.).U
24F0:	1E /					03	89	16						89	46	Ø٨		3v	gF.
2500:	8 B I		33		88			Вλ			33		84	_	99	818		u)	
2510:	75 (Ø3	83		11		C3	C7	46			16			F.=.)	
2520:	46 0					7D	9 B	813			42		20					F V	
2530:	EB E	ED	C7	46	04	ØØ	UØ	BB			ßΛ		30	E4	85			· · · · · · · · · · · · · · · · · · ·	
2540:	75 8	33	E9	CD	00	83	7 F.	04				E9			PF			u	1.4
2550:	1E 8	ВΛ	Ø 4	30	E4	80	e0	8λ		23	Øì		1,1,		К3			0	#.U
2560:	០ភ ខ	89 "	46	08	74	05	2D				03.			98		21:	-	F.uF .	
2570:	00 8		46	Ø8	75	1A	BB	4.6		85	Cß				88			- 2 1	F
2580:	7E (33		83	C4	11	50	C3.	C7	46	04	GU	00	EB			-3) ·	α
2590:	83					46	813	76	18	8 V	4 4	30	E4	85	CØ	.75		:ur.v .	
-370.															•				



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2C 8A 46 8C 30 E4 3D 41
88 7E 87 33 C8 83 C4 1A
       02 EB 6F 83 7E 04 61 75
25A0:
       88 89 46 88 7C 85 3D 5A
25B0:
                                  1F 88 C7 46 84 88 88 89
       5D C3 BA 46 BC 38 E4 25
                                                               F..b.3......
25C0:
                                  C4 1A 5D C3 8B 46 04 FF
       46 GA E9 62 FF 33 CB 83
                                                               F...F. B.- .F.
25D0:
                                  42 UC 21) 28 HU 89 46 68
       46 04 8B FO 8B 46 68 88
25E0:
                                  FØ 8A 84 PA 83 38 E4 85
       7C 11 3D 60 00 7F 0C 8B
                                                               u.3.... ] ..F.....
%..v..B. ..F....P
                                  5D C3 C7 46 08 00 00 E9
25 PØ:
       CØ 75 Ø7 33 CØ 83 C4 1A
2680:
                                  66 C7 46 96 96 90 8B 46
       25 FF 8B 76 84 C6 42 SC.
                                  D1 E0 8B F0 FF B4 E2 03
                                                               .=..}6.. .....
2610:
       06 3D 06 00 7D 36 DL E0
                                                               .P.P. ... u..P.
2620:
                                  E5 85 CØ 75 1A 8B 46 06
       8D 46 ØC 56 E8 E2 66 8B
2630:
                                 E4 63 BB 66 66 F7 EB 65
46 66 EB C2 83 7E 68 3A
                                                               F....
       D1 E9 D1 E9 88 F9 88 84
2640:
       BØ Ø3 83 C4 1A 5D C3 FF
2650:
                                                               u.3....] ...v..B.
                                  C3 8B 76 04 C6 42 GC 20
       75 87 33 CØ 83 C4 1A 5D
                                                               2668:
                                  81 F1 8B E5 85 CØ 89 46
       A1 5A 04 05 34 00 50 E8
2670:
                                  5D C3 8B 46 8A 8B 76 18
       18 75 07 33 CØ 83 C4 1A
                                                               ...F... F.=..}..

C.... B....F...

Z..v. D....
2680:
                                  46 04 3D 0B 00 7D 12 8B
       88 04 C7 46 04 00 00 8B
2690:
                                  42 SC 88 S7 PP 46 S4 EB
       5E 18 43 63 D8 8B .FØ 8A
26AØ:
                                  44 2E 8B C6 83 C4 1A 5D
       E6 A1 5A 04 8B 76 18 89
                                                               .U..... v...6.%.
.t...1. .Z..4.P.
26BØ:
                                  76 06 8A 04 30 E4 25 80 A1 5A 04 05 34 00 50 FF
       C3 55 83 EC 92 8B EC 8B
26C0:
       00 74 05 83 C4 02 5D C3
                                                               26D0:
                                  C4 02 5D C3 55 8B FC 8B
       76 06 E8 B6 F1 8B E5 83
                                                               F .... +. r.; ... r.
26EØ:
                                  72 1B 3B 1E 10 00 72 15
        46 04 8B 1E 0E 00 2B D8
26F0:
                                  1E 10 00 2B D8 D1 EB 93
                                                               ; .S....
        3B DC 73 11 A1 10 00 89
2700:
                                                               ...].3.] .0.....
                                  C3 55 83 EC 84 8B EC 8B
        89 07 93 SD C3 33 C6 SD
                                                               2710:
                                  08 8A 1C 30 FF 3B D8 75
        76 GA 8A G4 30 E4 8B 76
2720:
                                  CØ 83 C4 Ø4 5D C3 PF
                                                         46
        15 30 FF 85 DB 75 07 33.
                                                               ..F...v ...g..v.
2730:
                                  ØA 8A Ø4 3Ø E4 8B 76 Ø8
        08 FF 46 0A EB D9 8B 76
2740:
                                  83 C4 04 5D C3 06 50 08
        8A 1C 30 FF 2B D8 8B C3
                                                               . This is module
2750:
                                  73 20 6D 6F 64 75 6C 65 69 73 20 6D 6F
        00 00 54 68 69 73 20 69
20 31 0A 00 12 00 54 68
2760:
2770:
                                                               dule 2.. This is
                                  54 68 69 73 29 69 73 20
        64 75 6C 65 20 32 0A 00
                                                               module 3 .. This is module 4...J. Th
2786:
                                  ØA ØØ 54 68 69 73 20 69
        6D 6F 64 75 6C 65 20 33
2790:
                                  20 34 0A HU 4A 00 54 68
        73 20 6D 6F 64 75 6C 65
                                                                is is mo dule 5..
27A8:
                                   64 75 6C 65 20 35 0A 00
        69 73 20 69 73 20 6D 6E
                                                                ....s .u..\.u.
2780:
                                   00 55 02 08 50 00 55 02
        03 00 A4 00 00 00 01 24
27C0:
                                   00 00 00 00 00 00 00 00
        Ø8 Ø8 Ø1 Ø8 77 Ø6 84 Ø6
 2700:
                                   00 00 00 00 00 00 00 00
        00 00 00 00 00 00 00
27E0:
                                   89 09 09 00 00 00 00 09
        00 00 00 00 00 00 00
 27 FØ:
                                   00 00 00 00 00 00 00 00
        89 06 88 88 80 80 80 80
 2800:
                                                                88 80 60 00 00 00 00 00 00
        08 49 09 09 09 99 90 00
 2810:
                                   00 00 00 00 00 00 00 00
        90 00 80 96 00 00 00 00
 2820:
                                   00 00 00 00 61 00 72 80
                                                                ..... ...a.r.
        00 00 00 00 00 00 00 00
                                                                Can't op en stdin
file..C an't cre
 2830:
                                   65. 6E 20 73 74 64 69 6E
        43 61 6E 27 74 20 6F 70
 2840:
                                   61 6B 27 74 2H 63 72 65
        20 66 69 6C 65 UN 88 43
                                                                are stdo ut file.
 2850:
                                   75 74 20 66 69 6C 65 BA
        61 74 65 20 73 74 64 6F
 2860:
                                   20 28 29 29 28 28 28 28
        00 00 00 20 20 20 20 20
28 20 20 20 20 20 20 20
 2870:
                                   29 20 20 20 20 28 28 26 28
 2880:
                                                                   10 10 10 10 10 10 10 10 10
        20 20 20 48 10 10 10 10
 2890:
                                   84 84 84 84 84 16 10 16
         10 10 10 84 84 84 84 84
 2818:
                                   . 81 81 वा वा वा वा वा वा
         10 10 10 10 81 81 81 81
 28 RU:
                                   01 01 01 01 01 01 10 10
         61 61 61 61 61 61 61 61
 28C0:
                                   82 82 02 02 02 02 02 02
         10 16 66 10 82 82 82 82
 28D0:
                                   02 02 02 02 02 02 10 10
         82-62-82-62-02-02-02-02-
 28 EU:
                                   20 20 20 20 28 28 28 28
                                                                     1
         10 10 20 20 20 26 20 28
 28 FØ:
                                   28 28 20 28 28 28 28 28 26
         28 20 20 20 20 28 28 28
 2900:
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					10	10	10	10	10	10	10	10	18	1 (1	• •	10			• • • • • • •
2910:	20	28				•	• •	84	• •	114	84	84	84	1 #	10	10			
2920:	10	18	10			•••		-	81	81		01	(1.1	Bl	(1)	(11)			
2930:	10	10	3 (1	10	B I -		•••	81				01	(1)	61	10	1.0			
2946:	Ø1	01	(11)	(II)	(1)		•- •	(1)	** -	, U I	• •	112	02	02	02	02			
2950:	1.0	l U	00	10 .	82	H 2		H2.	112			#2	112	62	1.0	10			
2960:	62	02	02	02	02	02	#2	02	*	02	-		019	00		00			
	111	10	20	OU	មម	U II	(1)	UU	00.	99	(I ti	1913			00	00			
2978:					60		00	UU	បដ	H ()	00	UU.		00					
2980:	00	88			66	••••	00	ua	() ()	øø	ø	g H	(U	g ()	AU	00			
2990:	00	UU	80				uß.		. 00	00	UH	()()	uH	to to	40	616	,		
29 AU:	gu	บบ	86					UU	814	00	HÜ	ti (i	00	00	03	00		• • • • • • •	
2900:	99	uu	80	•		88		66	90	UU		(1 (4	80	g A	00	G G		• • • • • •	
29 CØ:	00	HU	00		• • • • • • • • • • • • • • • • • • • •	00	00		00	00	UU	110	OU	00.	ØØ	60		• • • • • •	
2908:	Øß	មថ	90	uo		UU	NO	H (3	88	00	00	UU	119	00	ØØ	Øß	•		
29 EØ:	00	98	ØG	90	(H)	80	H B	80			34	35	36	37	38	39		01	23456789
29FØ:	00	00	00	88	U ()	ØIJ	30	3 L	32	33	-	00	00	40	00	93	λ	HCDEF	
2 A Ø Ø :	41	42	43	44	45	46	ØØ	ØØ	90	00	Ø ()		00	80		00			
	00	00	00	60	00	00	90	00	aa	04	ø	(10	• •		90	00			
2A10:			00	00	00	ØØ	60	00	ØØ	ØØ	ØØ	00	00	ØØ	•				
2A20:	00	00		-	ØØ	00	00	0 Ø	00	00	480	WB	Ø (3	Øß	ØØ	00		• • • • • • •	
2A3Ø:	99	00	00	00		_	00	00	33	88	99	OB	øø	ЯU	00	00		• • • • • •	-
2A40:	00	00	40	Ø Ø	80.	88			88	88	UU	66	00	:00	88	60	•		• • • • • • • •
2A50:	. 00	00	Ø Ø	00	00	00		90		90	00	80	00	00	00	00	`•		• • • • • • • •
2A60:	00	00	00	00	80	80	93	99	00		00	90	99	00	98	00			
2870:	00	ØØ	00	80	00	00	88	00	00	00			្តព			00			
	88	00	00	00	00	00	00	8 ព	80	30	94	09		88	00	00			
2 A 8 G:	99	90	00	00	99	ØØ	00	00	ØØ	O G	99	90	ØØ		00	80			
2A90:			90	ØØ	00	00	00	9 9	00	00	00	េលឲ	98	89					
2 A A Ø :	00	66			00	ØØ	99	99	00	00	· U Ø	00	99	00	99	80			e
2AB0:	99		.00	88		90		00	39	00	90	4 6	· Ø3	20	99	90		• • • • • • • •	
2AC0:	00			88	60		86	ØØ	99			00	. 00	ØØ	99	Øß		• • • • • • •	
2ADØ:	00	00	80	99	00	88		90	99	99		99	90	ЯØ	00	Ø (3	•	• • • • • • •	• • • • • • • •
2AEØ:	00	00	00	00	98	00	90							. 00	88	. 00	•		
2AF0:	60	93	00	00	00	80	99	Øß	88							gg			
	80		02	Ø7	Ø 6	. 00	81	0.3	04	្ ព 3		-				93			CON.AUX.
2B00:	05				00	90	99	00	43	4 E	4 F							COM1 LPT	1.PRN.NU
2B10:					00	4C	50	54	31	0.0	50	52						L	
2B20:	43			-,	99	90	CC		Øl	ac	DØ	0.3		. 00					
2830:	40					90	_		Ø 3		.00	01	. 00	្ផា				• • • • • • •	••••••
2B401		00		03	0.2			01	00				gı	ં છા					
2850:	Ø)		,		00	00			Øl				้อเ	31	. 01	gı		• • • • • • •	• • • • • • •
2B60:	01	01			00	00			Ø1				01	Gl	. 01	. 01		• • • • • • • •	•••••
2070:	Ø	. 01	. 01		Ø 1	01			Ø1				91	. 61	. 01	01	,		• • • • • • • •
2B8Ø:	01	. 01	01	Ø1	01	00									. 61	. 01			
2B90:	91	Øl	. 01	01	91	Øl	_		91				_		3 0 0	00			• • • • • • •
2BAØ:	33		01	. 01	01	01	_		01								1		• • • • • • •
2BB0:	00			ØØ	00	00	99		96										
2BC0:	a			-	30	99	00	00	Ø				· .						
					-	ØØ	80	00	86										
2BDØ:	90								ø	3 (3 (3 (3)				_	_			-
2BE0:	90						-	ពេល	G (3 (1)	3 00	3 A C	3 H (រ ព	3 96	9 80	,	• • • • • • • •	
2BF0:	ସ (g Ø	3 00	99	W 0	W L	, .,	., .,											
2000:																			
			2.1																



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```
Dump of MODULE1.08J/II
                                                                    ....C9.....PROG.
                                   00 00 04 50 52 4F 47 64
     80 03 00 01 43 39 96 lh
                                  4P 55 58 66 44 47 52 4F 60 62 62 61 26 98 67 60 64 67 61 5E 9A 64 61 61 61 67 60 6F 64 75 6C
                                                                   DATA . PGR OUP . DGRO
     44 41 54 41 86 58 47 52
55 50 3C 98 87 88 28 88
                                                                   16:
20:
     48 14 00 03 03 01 FE 9A
                                                                    ....\....modul
30:
     00 05 FF 02 5C 90 0E 00
                                                                    ol..... ..printf
48:
                                   09 86 78 72 69 6K 74 66
     65 31 00 00 08 A2 8C 09
                                                                    ...... U...6...
                                   55 8B EC PF 36 12 60 E8 06 00 C4 05 14 02 62 7D
50:
     00 D2 A0 12 60 01 00 86
                                                                    ....]..........]
69:
     00 00 8B E5 5D C3 C2 9C
                                                                   essgl.......r
78:
                                   AA 90 BD 08 82 82 86, 6D
     90 06 80 84 88 26 81 81
     65 73 73 67 31 12 86 88 F7 A8 18 88 82 88 80 54
     68 69 73 28 69 73 28 60 6F 64 75 6C 65 28 31 8A
                                                                    his is m odule 1.
96:
                                                                    .....P...
     60 60 60 81 9C 86 00 C4 . 12 14 82 82 70 BA 02 00
ΛØ:
                            Dump of MODULEZ.OHJ/H
     86 63 66 61 41 39 96 1A 00 00 64 56 52 4F 47 64 44 41 54 41 66 56 47 52 4F 55 56 66 44 47 52 4F 55 56 3C 98 67 66 28 6E 06 02 02 01 26 98 67 66
                                                                               ... PROG.
                                                                     ...c9..
                                                                    DATA . PGR OUP . DGRO
 6:
10:
                                                                    UP<...(. ....6i...
                                                                    H.....
20:
                                    04 00 04 PP 01 58 9A 04
      48 12 00 03 03 01 00 9A
                                                                     lubom....
30:
                                    #1 #1 #7 60 6F 64 75 6C
      66 65 FF 62 5C 96 6E 00
                                                                    e2..... ..printf
46:
     00 06 70 12 69 68 74 66
                                                                    ...... U.....P.
50:
                                    55 III KC DH 00 00 50 KB
                                                                    06 00 C4 04 14 02 02 78
AA AO 16 00 02 00 00 54
60:
      9C 06 00 84 08 26 81 81
      68 69 73 28 69 73 28 60 68 64 75 60 65 28 12 BA
                                                                    his is m odule 2.
80:
905
                                                                     .....t
      00 B2 8A 02 00 80 74
AU:
                             Dump of MODULES, OBJ/R
                                                                     ....C9.....PROG.
                                   00 00 04 50 52 46 47 04
      80,03 00 01-43 39 96 1A
                                                                     DATA.PGR OUP.DGRO
                                   48 55 50 06 44 47 52 4P
      44 41 54 41 06 50 47 52
55 50 3C 98 07 00 28 0E
                                                                    npc...(. ....b...
                                    06 62 62 61 26 98 67 66
 20:
                                    84 88 84 PP 81 SE 9A 84
      40 12 00 03 03 01 01 00 9A
00 05 FP 02 5C 90 0R 00
                                                                     ....\....modul
                                    01 61 67 60 6F 64 75 6C
08 66 76 72 69 6E 74 66
                                                                     e3.....printf
 40:
      65 33 00 00 00 00 86 86 09
 50:
                                    55 BB EC BB 00 00 50 ER
       00 D2 AU 12 00 U1 OU OH
                                                                     60:
                                    86 88 C4 84 14 82 82 7E
       gg gg 8b RS SD C3 01 9C
 70:
                                    AA AO 16 OO 07 OO 00 54
       90 06 88 84 08 26 81 81
 RU:
                                                                     his is a odule 3.
                                   6F 64 75 6C 65 28 13 UA
       68 69 73 20 69 73 20 60
 20:
                                                                     .....t
       00 BL 8A 82 80 00 74
                             Dump of Module4.00J/H
                                   00 00 04 50 52 4F 47 04
4F 55 50 06 44 47 52 4F
80 92 02 01 26 98 07 00
                                                                      .... C9..... PROG.
       80 03 00 01 43 39 96 1A
                                                                     DATA . PGR OUP . DGRO
       44 41 54 41 06 50 47 52
55 56 3C 98 07 00 28 0E
 10:
                                                                     UP<...(. .........
                                                                     94 00 84 FF 01 5E 9A 84
81 91 67 6D 6F 64 75 6C
80 96 70 72 69 6E 74 66
 20:
       48 14 00 03 03 01 PK 9A
00 05 PF 02 5C 90 0K 00
 46:
       65 34 86 66 00 9P BC 09 86 86 70 72 69 6E 74 66 86 DZ AG 12 60 81 00 06 55 06 EC FP 16-12 86 EB
                                                                     <u>...... v...6...</u>
       00 00 8B E5 5D C3 C2 9C 86 80 C4 85 14 02 82 7D
```



80: 90: A0: B0: C0:	65	73 69 80	73	84 67 20 AE	34 69	12	20 00	6D C4	F4 6E 12	Λβ 64 14	75 #2	65 60	82 65 78	90 30	74	54 8N	essq4 his is m	odule 4.
							Ds	qme	of t	1000	JI.E'	5.01	3J/I	1				
0: 10: 20: 30: 40: 50: 60: 70: 80:	44 55 48 00 65 00 90 90	12 05 35 D2 00 06	54 3C 00 FF 00 A0 8B 00 73	01 41 98 03 02 00 12 E5 84 20 62	06 07 03 5C 00 00 5D 08 69	50 00 01 90 96 01 C3 26	96 47 28 86 8C 80 81 91	1A 52 0E 9A 00 09	00 4F 00 04 01 00 55 06	00 55 02 00 01 06 88 00	64 56 62 64 67	50 06 01 EE 6D 72 B8 04 60	52 44 26 01 6F 69 09 14	4F 47 98 5E 64 6E 00 62	75 74 50 02 00	4 F 80 84 6C 66 E8 7 E 54	DATA.PGR UP<(. H	oup.DGROenodulprintf



```
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```

```
char *messg] = "This is module l\n";
modulel ()
{
        extern char *messgl;
        printf (messgl);
}

module2 ()
{
        printf ("This is module 2\n");
}

module3 ()
{
        printf ("This is module 3\n");
}

char *messg4 = "This is module 4\n";
module4 ()
{
        extern char *messg4;
        printf (messg4);
}

module5 ()
{
        printf ("This is module 5\n");
}
```



Dump of SECURITY.OBJ/H

														6.4	41	n ć		A:	DATA.
0:	80	93	33	Øl	41	3B	96	۱A	33	66	84	44	41	74	50	52	ť	GROUP.P	GROUP . PR
	4.4	47	52	4 F	55	50	96	58	47	52	4 5	22	50	04	22	20	-	occ H.	
10:	44	4 /	32	20	43	00	A R	12	88	62	62	01	02	98	01	טט			
20:	4 F	47	3C	911	9/	- 1			0.4	un	43	24	øl	5F	9λ	34	((W	••••
30:	28	57	00	Ø5	Ø5	91	D7	91	94	017	45	63	51	47	31	00		1 . " .	.MESSG1.
40:	00	a A	FF	02	5D	8C	22	ЯИ	86	41)	42	7,		10	4.5	12		MESSG4.	.MODULE2
	00	40	46	53	53	47	34	00	67	4 D	4 E	44	55	40	4 2	32			
50:	סט	40	43		- 0	4 13	46	50	aa	82	ΛÜ	16	60	() L	00	00			
60:	99	96	53	211	211	4 17	45	22	40	an	(113	48	øø	(4 (8	βØ	UG			• • • • • • •
70:	#3	80	OB	øo	00	00	ØL	1111	1717	42	0,,	"	Ø 7	16	g L	91		5	
80:	ØB	88	35	9C	10	ØH	CC	02	10	02	000	.04	BØ	0.0	FR	13 (3		[
90:	CC	ac	16	θl	62	ЯP	Λß	513	83	82	19 (7	COL	1317		0.0	au			• • • • • • •
	// 0	20	40	an.	30	EA	75	28	130	63	Еu	00	00	118	(1) (1)	00	'		
λØ:	00	FO	40	0.5	0.4	20	60	ua	BB	99	66	813	16	a a	uu	C4			CJu
BØ:	E8	913	00	81		50	0.0	22	43	en	00	UÜ	4 A	75	Pβ	C3		/ 3	
CØ:	37	83	C3	04	5 5	Çı	AR	UE	4 1	****	E 1	DΩ	08	04	26	λC		. L	٠٠٠٠٠.
DØ:	CD	4C	FC	813	FE	HH	θl	EB	99	90	21	12.7	00	176	70	C3		· Y	
		n a	aa	E2	129	59	68	មួន	99	λN	E3	FV	C 3	r.0	713	a é		1 0	Q
EØ:	E 0	70	(13	CI:	ñć	51			63	14	ø2	62	51	90	11.4	90		, t	0
FØ:	F. 4	/13		Cr.	"	0.4			92	0.2	51	44	C4	12	(11)	UI		T <u>.</u> .	
100:	16	92	82	54	(11)	ยจ	ЯP	0.0		1 2	10	02	02	51	O Ø	C4		Q .	
110:	34	84	15	10	02	ß2	51	เหน	84	LN	- 10	0-	213	10	112	an		!	
120:	10	aa	43.1	Ωl	02	(3 (3	C4	21	14	B 1	G 1	114	218	111	" "			6 6 0	EQ.
	117	40	0.4	30	10	112	02	51	90	84	45	18	02	02	7 L	יוט	•		SE
130:		00	04	10	. 0	6 4	00		90		90	(1 (1	02	03	53	45		.к т.	sr
140:	84	4 13	ra	.02	U Z	24	00	63	40	NB	0 A	42	93	90	74		(CURITY	t
				40	C 4	50	(3 (4	(14)	00	ı)E	0.77	•, -							



```
pgroup
         group
                  prog
         segment byte public 'prog'
prog
                  cs:pgroup
security
         assume
         public
                  data
         group
dgroup
                  word public 'data'
data
         segment
                  ds:dgroup
module2:byte
         assume
         extrn
         extrn
                  messgl:byte
                  messg4:byte
         extrn
                  sppkey:word
         extrn
                  (secend-sectab-2)/5
sectab
         ₫w'
                  pgroup:module2
         đđ
         ďЪ
                  01
         аd
                  dgroup:messgl
                  08
         đЬ
         đд
                  dgroup:messg4
         dЬ
                  08
                  ?
         db
secend
data
         ends
security
                  proc
                           near
         mov
                  al,0
         call
                   outspp
                   Inspp
         call
                  al, Guah
fail
          cmp
          jnz
                   al,3
          mov
         call
                   outspp
                   ax, offset spokey
         mov
          call
                   outspp
                   al, alı
          voin
          call
                   outspp
                   bx, offset sectab+2
          mov.
                  si,dword ptr [bx]
bx,4
          mov
          les
add
 lop1:
                   cx,cx
cl,byte ptr [bx]
          xor
          mov
          inc
                   рx
                   encode
          call
          dec
                   dх
                   lopl
          jnz
          ret
                   4ch
 Eail:
          int
                   endp
 security
 encode
          proc
                   near
          cld
                   di,si
          mov
                   al,1
          mov
          call
                   outspp
          push
                   СX
                   cx,8
          mov
          lods
                   byte ptr es:[si]
 lop2:
```



	call	outspp
	100p	lop2
	pop	CX ·
lop3:	call	inspp
	stosb	-
	100P	· lop3
,	ret	
encode	endp	
outspp	proc	near
Odrabb	out	123,al
	ret	
	:	
outspp	endp	•
inspp	proc	near
• • •	in	al,123
	ret	
inspp	endp	*
prog	ends	
E 3	end	



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Dump of MAINIE.EXE/H

_				٠,٠			Q 4	03	23	94	18	60	۲ť	88	9 B	02	M2
ø:		5A		-	16 82		96	Ø3			88	OU		80	60	00	
10:	00			51			-	32				82	001	_	66	00	t.U.y.U. ⁻ .U
20:	74					00		02 08	98	88		88		00	88	ØØ	
30:	88			00	00	Ø0		•	00		ØU	08		88	08	98	
40:	ឲ្			00	88	66	00	00	99	Ø0		88		pø	иß	03	
50:	99		00	00		99	00	00		38		00		OO	98	ag	
60:	Ø 0		99	00	88	88	00	99	00	00	00			88	00	60	
70:	вø		99	03	ØÖ	00		Ø (3	00		88			90	88	00	
80:	99	ߨ	80	ØØ	00	Ø Ø	60	Ø0	99	00	មម	ប្រក		00	33	80	
90:	90		00	00	00	88	00	Øß	00			_		88	86	66	•••••
A0:	នួល	Ø (3	80	90	00	00	Ø0	ØØ	88	00	90	00		30	98	80	• • • • • • • • • • • • • • • • • • • •
BØ:	60	00	ØØ	03	00	60	A (t	86	88	00	88				00	00	•••••
C0:	00	00	00	88	66	ØØ	0.0	au	90	Ø (3	ga	88		88			• • • • • • • •
DØ:	ØØ	88	00	00	OØ	O O	OU	00	80	Ив	ឲ្	HO		មម	ua	84	******
EØ:	00	00	OO	gg	ØØ	ΒØ	() ()	(4)(4	G G	80	90	1414	00	00	UU	80	
FØ:	ØØ	ØØ	00	00	8 ៥	g g	O O	UU	88	មព	39	00	ØG	08	UØ	00	
100:	80	ØØ	ØØ	ØØ	ផ្ល	UU	Att	3 9	00	មួម	00	HO.		(18	00	80	
110:	99	00	38	90	93	00	OU	00	00	00	ឲ្	ับผ	០ប	00	uВ	3 (1	
120:	ÕØ	00	88	80	80	GG	00	BU	ØØ	ØØ	80	HØ	OO	() ()	ប្រព្	O H	• • • • • • • • • • • • • • • • • • • •
130:	93	00	80	89	88	00	03	BU	66	Gø	មម	HU	00	HО	00	Ø ()	
140:	88	ÜØ	00	00	υØ	88	er (1	00	00	UU	UU	UU	00	(14	tt (I	00	
150:	66	99	US	00	08	00	00	ØØ	00	00	មូល	(4 C)	00	13 (3	υØ	90	
168:	96	00	93	80	บบ	ΩU	ØØ	00	06	UU	()()	UU	() ()	(1(3	0 a	G ()	
170:	60	90	88	88	00	00	06	Øß	99	BB	ØØ	OB	WG	ឲ្យ	(10	ØU	• • • • • • • • • • • • • • • • • • • •
180:	00	80	98	93	ua	08	0.0	ØU	8 (1	GU	90	O O	UU	BB	14 (3	60	• • • • • • • • • • • • • • • • • • • •
190:	80	00	88	UU	00	90	00	00	90	UU	00	UU	OG	(1(4	មួយ	80	• • • • • • • • • • • • • • • • • • • •
180:	00	00	ÜÜ	00	go.	NO	(11)	00	au	88	{} {}	811	84	90	υø	a a	
180:	88	88	-	OB	00	00	00	0.0	00	60	(16	00	00	OO	UØ	00	• • • • • • • • • • • • • • • • • • • •
	60	30	80	00	HU	00	00	00	00	60	00	ti (i	U (I	(11)	60	G (3	
1CB:	•			00	UU	88	06	60	ØØ	60	u O	00	00	00	(10	ØØ	
100:	98	00	OB			86	UU	30	80	BU	00	00	00	00	66	34	
1 EØ:	00	00	00	00	00		00	00	00		-	UU	UB	00	06	80	
le0:	66	88	00	80		63	65	20	43			213		32	FΛ	BH	fartice C 1.02
200:	4C	61	74	74	69		26	813		02			08	177	C 3	ØU	U&+
210:	55	62	8 E	DB		D0	K3	KB	83			EF		B3	PB	8 9	. U
220:	FØ	75	86	Bl		64	V 3	10	ยย				50	88		BE	
230:		-		BB				ED		09				Bl	E3	FE	
248:	8.0	86	26	8 A			05	63	47					20	47	26	.+ C G G&
250:	EE 8A	213 Ø4	E3 88	8B 85	_	47	F.2			CII				DB	BE	CU	FG 3
260:			50	E8		00		E.5	CB			00		04	UB	813	P
270:		C4 CB	55				615		EB					O O	E8	2 F	/
280:	E.G						55	813	FC	-						83	:.].U6\$
290:	08	E8	31			813	-		26							K 5] &.P
2 NØ:	88			C3					_				_			C3	1.u8. P1.
2BØ:		C3	55					88	50	02		• -				-	U6\
2C8:.		8 B				5C						Cl					PlL
2D8 :	EC		5 E		_					85			-				l<.u(e
2 EØ:	00								BO								.:srp
2F0:	E8		BO		. C4				BB							C3	73 CJu
3.06.:		_8.3			_33				43								
310:	CD				PE				13	00	ነ ነነ	119	(1)	980	20	-VC	
320:	E8	βA	80	P.2	F9	59	R8	87	H G	VV	K2	. ra	C3	15 h	713	C 5	



	220.	24	70	C3	55	83	EC	ac	RR	PC	RR	76	10	8 V	04	30	E4	. (. 11		vØ.
	330:							Bl		E4	25		80		05	PP	46	e	. " . Ø	.1tF
	340:		813		C7		82	60			113			0.0						> -
	350:	10						BA				F 9	17	aı	FP	46	1:6			GF.
	360:		79				10	BB		-10	8 7		30	E4		na		S	v	0 . 6
	370:		06				96	25		90	75	83	K)		01	ΑT	24		0.1.	.u\$
	380:				91		E4	EE.		10	ΒA	-		14					F	0
	390:		BB				EB 82	RB		FF	46			46			90		s	.FF
	3 VQ:		Ø 3				_			CØ	89			74			88			F.t)@.
	3 BØ:		76				30	E4		98	gg			813			3D			uF.=
	3CØ:		8 A		22		30	E4							85	89	84	, i.	. P	
	300:		00		9 E			กง		_	8.ភ		14		00	00	E3			v
	3 EØ:	88	00				EB			76	N4						10			G.=>v.
	300:		00		76			8 V	-	30	R4	30		88		76				
	400:	75	09	В8	EC	Вß	pp	46	10	У3	86		C7		• -	00	00			F
	410:	-8B	76	10	βA	64	30	E4	85	CØ	89	46	•		29	40	8B			F.t)0.
	420:	FØ	8 A	84	22	01	30	E4.	25	08	ព្រ			8 N		64	30			uF.=
	438:	10	00	7 D	ØE	PF	46	84	8B	FØ	813	713	18	8 V	B 5	88	84			
	440:			FF		18	εıз	C9	8B	76	8.4	C6	84	99	ØØ	ØØ	ΕB			v
	450:		λl				Ø6		_	Dl	EØ	នព	۲ø	813	46	10	89	М		F
	460:			00			10		_	30	E4	85	CH	89	46	88	74		· · · ·	ØF.t
	470:						85			30	E4	25	BB	84	75). F	ГF	-0	" .	Ø.8u
	480:			EB		3D	3 E	00	75	03	E9	66	FF	31)	3C	00	75	F	۵.<≖	f.=<.u
	498:		E9				3D			03	E9	Dι	FE	EB	ßЭ	8B	76			v
	4 A Ø :		ΒÀ		30				18	C6		00			89		04	0	F.	F.
	4 B 6 :	74		8 B			BΛ	-	30	E4	46	-	FB		85	22	01	t*.v	0	.@".
	4 C 0 :		E4	25		_	74				10	EB			76	10	8 /			Fv
		94	30	E4	85				E9		PE	EB	00		EE	08	50			p
	4D0:		88		50		CD				EG	36			BB		00	P		6
	4 E 0 :						BD		88	E5.		RC			BB		00			s
	4 F0:		89		06	E8	۸D		88	E5	85		89	46			09			F.u.
	500:		89	46	98					£5	83	71:				15	FF			u
	510:			80	50		65		88			F.5		Ø 1	00	50	EB			Р.
	520:		βA		FØ		58		DØ	03	813			θA			01			uv
	530:		84		E5		7 E		00	75	15					E5	ΛŪ			.P
	540:				03		E5		ព ា	89	50			03.		30	E4			.vD.Ø.
	550:	88	១០		E4				8 E		76	06		44			8 B			.øu
	560:	ØĐ		99		44		•	99	00				CII		76	tt V			Dv.
*	570:		98		44				(31)		(4 (3		44			_				.DP.
	580:		44		30		ØD		UH		4.4		138		00	56	FF E5			3.P
	590:		82		EΒ				R.5					A7		BIL	61 61			
	5 A 9 :	83					55		EC					an an		14				,0u
	580:				BB		12		8 A	(3.4		E4			75		E9			
	5C0:	EC	u o	BB	DE	89	5 E		4.3		04		E4		25		89		, , .	0 -
	500:	46	U6	89	9 E	12	θl	74	B 3		A7		BA		30	F:4	3.0			0.=
	5 E 0 :	25	0.0	75	34	FF	86	12	Ø L	ΒA	67		E4		1 E		02			aa.
	5 F 8 :	4 B	85	DB	89	46	06	89	lΕ	30	02		HK	** *	36		(12			0.x
	600:	FF	06	2 Ľ	62	88	04	30	E:4	EB			2 E		50		76		, . И .	P.V
	610:	06	83	20	(14 -	813	E 5	Fill	913					81)			50	• • • •		.F.P.F.P
	620:	80	46	ØЕ	50	FP			01					1:5				.F.P.		·(
	630:	46	IJΑ	75	0.3	K9	7C	FF	C7			BH					Ö١	F.u.	٠:١:	£
	640:	8 B	46	04	$3B_{\odot}$	16	08	7 C	03					1 E		02		۶.; ۶	· I ·	.hø.K
	650:	85	DB	89	1 E	30	02	7 A	13 -			2 K			86	28		٠(
٠.	660:	8 B			42				361			1.2				BV.				v.B
	670:	ØE	30	24	BB	2 E			50		139		HII			46				F.
	680:	EB			30			85		A3	30			12		36				.Ø.×6.
	690:	02	PF	86	2 ₺	6. 2	813	46	96	88	84	30	E4	EJ.	14	F.b.	138		. r	0
						1														



```
..P.v..
                               03 8B E5 E9 05 FF 81 C4
      2E 92 50 FE 76 06 E8 8B
6 A 0 :
                               8B EC B8 26 62 89 46 62
      GE G1 5D C3 55 83 EC G6
6B0:
                                              30 R4 85
                               73 OF BK 47
                                            ØĞ
      B8 A6 02 8B 5E 02 3B DB
                               E7 BB 46 92 30 A6 82 75
6C0:
         74 06 83 46 02 08 EB
      CO
                               PF 76 02 FF 76 0C PF 76
6D0:
      97 33 CØ 83 C4 Ø6 50 C3
                                86 50 C3 55 83 KC GA 8B
6E0:
      8A E8 87 88 85 87 C4
                                                            ..v..D.. .t.8.1
6FO:
                                CØ 74 1F 30 E4 25 02 00
      EC 8B 76 12 8A 44 06 84
                                                            t.V...P.
                                1A 93 8B E5 8B 76 12 8A
700:
      74 0A 56 BB PF PF 50 EB
                                                            D.G.P.I.
                                BB R5 BB 76 18 BA 84 39
710:
      44 07 30 R4 50 E8 49 10
                                                            ..t. -. @P .v.....
                                FF 76 HE E8 D4 OB 8B E5
728:
      E4 EB 74 A1 7E 83 40 58
                                                            .F. 4u... .... P. v.
730:
                                03 05 A4 81 50 FF 76 0E
      89 46 06 40 75 12 AL 7E
                                                            .....F. ...P3.P3
748:
                                B8 82 88 50 33 CØ 58 33
      E8 B9 GC 8H E5 89 46 86
                                                            .s.v.... ...F....
750:
                                8B R5 C7 46 84 82 86 EB
               76 86 E8 DE BE
                                                            760:
      DB 53 FF
                                E8 97 HB HR E5 C7 46 64
      47 FE 36 7E 63 FF 76 9E
                                7E 43 US A4 H1 50 PF 76
64 62 UG 89 46 U6 EB 18
770:
      01 00 89 46 06 EB 31 A1
                                                             .x...F
780:
      ØR E8 78 GC 8B E5 C7 46
                                                            3....).< wt.<rt.<
798:
                                77 74 pc 3c 72 74 c2 3c
      33 CO 83 C4 OA 50 C3 3C
                                                            au..}... .~..u.3.
7 እ ያ ፣
                                83 7E 86 FF 75 87 33 CB
      61 75 83 E9 7D FF EB E8
                                                                    .D....
7BØ:
                                                            ...l..v.
u....P.
                                8H 44 B4 B5 CO B9 46 08
      83 C4 GA 5D C3 8B 76 12
75 LF B8 00 62 50 EB 22
                                10 80 85 85 CH 89 46 08
7C0:
                                                            u..v....
700:
                                8B E5 33 CB B3 C4 BA 5D
      75 OF FF 76 06 E8 89 OF
                                                            7E8:
                                85 CU 75 65 B1 4E U4 04
      C3 8B 76 9E BA B4 30 R4
                                                            ..f..v.. D..F....
7 FØ:
                                44 67 88 46 68 89 64 89
       00 8B 46 86 8B 76 12 88
                                                            D..F..D. L..t..D.
800:
                                25 05 06 74 87 07 44 62
       44 04 88 46 04 88 44 06
                                                            ....v.. D....F..
810:
                                44 02 00 02 88 46 12 83
       80 00 EB 08 88 76 12 C7
                                                            .....v..D.
 820:
                                8B EC 8B 76 BB 8A 44 96
       C4 8A 5D C3 55 83 EC 84
 830:
                                BB FF FF SH EB E5 H1 BB
       30 E4 25 U2 UU 74 UA 56
                                                             ...p.v. .t..=..
 840:
                                FF 74 84 E8 3D L8 8B E5
       E5 BB 00 02 50 8B 76 08
                                                             .v..D....D..Ø
 850:
                                C6 44 86 88 8A 44 87 38
       8B 76 08 C7 44 84 80 88
                                                             869:
                                C4 84 50 C3 55 88 EC FF
       E4 50 E8 EC BE 8B E5 83
                                                             878:
                                 8B E5 5D C3 55 B3 EC 86
       76 06 FF 76 U4 EB F1 F9
 880:
                                 BA 84 38 E4 85 C8 B9 46
       8B EC 8B 76 BA FF 46 BA
                                                             .t) .. 0.K .... 0.x.
 890:
                                 85 DB 89 IE 38 82 78 8E
       04 74 29 BB 1E 30 02 4B
                                                             .6....
 8 AG:
                                 88 U4 30 K4 EB D4 B8 2E
       8B 36 2E 02 FF 86 2E 02
                                                             8 BG :
                                 8B E5 EB C6 A1 30 BZ 48
       02 56 PF 76 64 E8 6C 01
                                                             ...... 6.....
                                 36 2E 62 FF 66 2E 62 R6
 8CØ:
       85 CH A3 30 H2 78 18 88
                                                             ...o.....p...p.
 : 008
                                 2E 02 50 00 0A 00 50 E8
       UA 88 U4 30 E4 EH BD B8
                                                             n.....ı .u.....
 8 E Ø :
                                 C3 55 83 EC 88 8B EC C7
       42 01 8B E5 B3 C4 06 5D
 8 FØ :
                                                             F....v. F...G...
                                 46 HC HA W4 3H E4 B5 CB
       46 06 00 00 8B 76 0C FF
                                                             .r.t(.v. .\.K.\..
 908:
                                 8B 5C 82 4B 89 5C 82 85
       89 46 04 74 28 8B 76 8E
                                                             918:
                                 07 30°E4 KB OB FF 76 OR
       DB 78 GA 88 1C FF 84 88
                                                             920:
                                 89 46 86 EB C7 BB 46 86
       FF 76 04 E8 FE 00 8B E5
                                                             ...1.0..
 930:
                                 86 88 EC C7 46 64 68 90
       83 C4 08 5D C3 55 83 EC
 940:
                                                             .F.=..}# .....
                                 BL 03 D3 E0 BB FØ BA 9C
       8B 46 64 3D 10 00 7D 23
2C 02 30 FF 81 E3 02 00
 950:
                                                             ..... .F.t..&.
                                 89 46 80 74 89 85 26 82
                                                             P . . . . . F
 960:
                                             76 BC FF 76
                                 04 EB D5 FF
       50 E8 C0 FE 8B E5 FP 46
                                                                       .).U...
 970:
                                 06 5D C3 55 83 EC 04 8B
                                                             . . . . . . . .
       GA E8 F8 FE 8B E5 83 C4 .
                                                              ..v..D.9 .....F.t
 986:
                                 E4 A9 01 00 89 46 00 74
       EC 8B 76 68 8A 44 66 30 05 25 30 UB 74 08 BB FF
                                                                       ....l..v
 990:
                                                              . 19. t...
                                 FF 83 C4 64 5D C3 8B 76
                                                              ..D....D .0....S.
 9 40:
                                 07 30 E4 BB 00 02 53 FF
       08 8B 44 04 89 04 8A 44
                                                             4P.'... v..D...u
 988:
                                 76 08 89 44 02 85 C6 75
        34 56 E8 27 6B 8B E5 8B
                                                             ..D.Ø... ..D...
 9CØ:
                                 00 88 44 96 BB FF FF 83
        13 8A 44 06 30 E4 0D 10
  900:
                                 7C 02 FF 75 18 BA 44 06
                                                              C4 04 5D C3 8B 76 08 83
                                                             g.....D....D.....
  920:
                                 C7-44-0,2-00-00-68-FF-FF
        30 E4 ØD 20 00 88 44 06
                                                              ...]..v. .D.H.D..
  9 FØ :
                                 BB 44 02 48 89 44 02 85
        83 C4 Ø4 5D C3 8B 76 Ø8
  A00:
```



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F8 8A 1D 30 FF 81 E3 FF
      CØ 78 10 8B 04 FF 64 8B
                                                                 ....v..b ......
A10:
                                  PP 8B E5 8B D8 8B C3 83
      00 EB 0A PF 76 08 E8 62
A20:
                                  BB EC 8B 76 18 8A 44 86
                                                                 ..).U...
      C4 04 5D C3 55 83 EC 0A
                                                                 g.....£. t.10.t..
                                  74 85 25 38 88 74 88 B8
A30:
      30 E4 A9 02 00 89 46 00
                                                                 .....l.. v...+n..
A40:
                                  76 18 8B 04 2B 44 84 8A
      FF FF 83 C4 ØA 5D C3 8B
                                                                 .g. .r. .tQ. ... .us.v.D. .g. .cs .t.P. ... ... ...
A50:
                                  89 46 Ø8 89 46 Ø6 74 5C
      5C 06 30 FF 81 E3 84 89
                                  FF 74 51 BB 04 FF 04 BB
λ60:
      3D 00 02 74 57 83 7E 0E
                                  9A 75 24 8B 76 19 8A 44
FF 74 94 58 89 5E 96 E8
5C 94 89 1C 89 46 98 8B
A70:
      SE ME 8B FØ 88 1C 83 FB
A80:
      07 30 E4 88 5E 06 43 53
A90:
      F6 ØA 8B E5 8B 76 10 8B
                                                                 v..D... F.;F.u..
F...]. F...
                                  46 08 3B 46 06 75 08 8B
AAØ:
      76 .10 C7 44 02 00 00 8B
                                  46 06 00 00 83 7E 06 00
ABO:
      46 ØE 83 C4 ØA 5D C3 C7
                                                                 t9.v..p. Ø..v..t.
ACØ:
                                  30 E4 FF 76 06 FF 74 04
      74 39 8B 76'10 8A 44 07
                                                                 p.....v ..\....\
                                  10 8B 5C 04 89 1C 8A 5C
46 08 74 07 C7 44 02 00
ADG:
      50 E8 B4 0A 8B E5 8B 76
                                                                 .a.... f.t..D..
AEØ:
      06 30 FF 81 E3 04 00 89
                                                                 ....v..D ....-..u
AFØ:
                                  g2 gg g2 83 7E 88 FF 75
                   76 10 C7 44
      00 EB 08 8B
                                                                 ..v..D.0 ....D..
R00:
                                  E4 GD 20 00 88 44 06 EB
      10 8B 76 10 8A 44 06 30
                                                                 ..F.;F.} ..v..D.0
                                  GE 8B 76 16 8A 44 06 30
B10:
      16 8B 46 08 3B 46 06 7D
                                                                 ....D. F.=..t%.
B20:
                                  46 GE 3D FF FF 74 25 8B
02 85 DB 78 GA 8B 1C FF
      E4 0D 10 00 88 44 06 8B
76 10 8B 5C 02 4B 89 5C
B30:
                                                                 ..... v..v....
B40:
                                  76 10 FF 76 SE ES D4 FE
      04 88 07 30 E4 EB 12 FF
                                                                 ....F.. ..v..D.0
                                  00 8B 76 10 8A 44 06 30
B50:
      8B ES EB 05 C7 46 0E 00
                                                                 .10.t... F
B60:
                                  FF 83 C4 UA 5D C3 8B 46
      E4 25 30 00 74 00 18 FF
0E 83 C4 0A 5D C3 55 83
                                                                 EC 36 8B EC 33 CR C7 46
B70:
                                                                 B80:
                                   8B 76 3A 8A 1C 36 FF 83
      12 FF FF C7 46 14 20 00
FB 2D 89 46 0C 89 46 16
                                  89 46 AE 89 46 18 75 09
B90:
                                                                 ....F:.F ..v:..G.
.P.Q... ".G.&..t
J.T.Gu.. F.G..v:.
                                   OC 88 76 3A 8A 84 39 E4
BAG:
      BB 01 00 FF 46 3A 89 46
                                   22 01 30 R4 25 04 00 74
BBG:
       89 46 00 40 8B FO 8A 84
BC0:
                                   46 14 30 HU HB 76 3A FF
       4A 83 7E 00 30 75 05 C7
                                                                 F: .. 0.1. .. F.. v: .
BDØ:
                                   00 89 46 16 BB 76 3A BA :
       46 3A 8A 04 30 E4 25 OF
BEØ:
                                   22 01 30 E4 25 04 60 74
      04 30 E4 40 8B F8 BA 85
                                                                 ..F..... ..F:..0.
BFØ:
                                   EB EF 46 3A BA 1C 39 FF
       1A 8B 46 16 BB GA 00 F7
                                                                 0.=..u7. F:.F....
C00:
                                  16 EB D1 8B 76 3A 8A 84
       81 E3 OF 00 U3 C3 89 46
Cl0:
                                   46 3A C7 46 12 00 00 8B
       30 E4 3D 2E 00 75 37 FF
                                                                 v:..0.e. ...".G.&
C20:
                                   FB 8A 85 22 01 30 E4 25
       76 3A 8A 84 38 E4 48 8B
                                                                 C30:
                                  UA UB F7 EB FF 46 3A BA
       04 00 74 IA 8B 46 12 BB
                                   C3 B9 46 12 EB D1 BB 76
C48:
       1C 30 FF B1 E3 0F 00 83
C50:
                                   75 09 BB 01 00 FF 46 3A
       3A BA 84 30 E4 30 60 88
                                                                 .F..F....v:....
                                  HB 76 3A HA 04 10 E4 E9
HB 76 3E HB 04 B 1 04 04
C60:
       89 46 BE C7 46 1C 00 00
C70:
       AB 82 83 78 08 88 74 17
88 FB 8B 56 02 88 06 89
C80:
                                   4E 1E 89 5E 20 EB 19 BB
                                                                 C90:
                                   E6 8B 10 31 cm 85 08 79
       76 3E BB 04 83 04 02 8B
CAU:
                                   8B 46 2B B5 CB 79 42 P7
FF C7 46 10 B1 BB 31
       61 49 89 4E 20 89 5E 1E
CIM:
       56 20 F7.5E 1E 83 5E 20
CCU:
                                   3E 8B 04 83 04 84 8B F0
       B3 7E 0E 00 74 17 8B 76
CD0:
                                   89 5E 20 FB 14 BB 76 3E
       8B 5C 02 8B 0C 89 4E 1E
CEO:
                                   1C 33 CO 89 46 20 89 5E
       BB 04 B3 04 62 BB F6 BB
                                                                  CFU:
                                   06 48 BB FB B9 46 06 BB
       1E C7 46 06 0B 00 BD 46
D00:
                                   UA BU 89 76 BU ER 49 UD
                                                                  .B...v .R".F .
       46 20 8B 5E 1E 11 CT BA
       83 C2 30 83 D1 88 88 76 00 88 52 22 88 46 20 88 58 1E 33 C9 88 88 00 E0 2F 8D 89 46 20 89 58 1E
010:
                                   2F.00 89 46 20 89 5E 1E
03 7E 10 01 75 00 88 46
1)28:
030:
      *BB 46 20 0B 46 1E-75 BE
                                                                  .H...B"- .F..F"
D4U:
                                   89 46 06 BD 46 22 BB 58
                                                                  ....+F ..F.....
       96 48 8B FO C6 42 22 20
                                  .
050:
       06 03 DB BB UB 00 2B 46 H6 D9 46 UA U9 5E 1C E9 D1 01 03 7E 0E 00 74 17 BB 76 TE UB U4 B1 04 B4
                                   66 89 46 0A 89 5R 1C E9
```

D70:



```
D80: 8B F0 8B 5C 82 8B 0C 89
                                  4E 1E 89 5E 20 EB 14 8B
                                  EG 8B 1C 33 CB 89 46 28
                                                                v>.....
       76 3E 8B 04 83 84 82 8B
090:
                                  8B 46 06 48 BB FB BB 5E
                                                                         .F.II...
                    46 06 08 00
       89 5E LE C7
DAG:
                                                                 .N.3...
                                  BE BB BB D9 BA BF A6 B2
       26 8B 4E 1E 33 DB H1 EL
DRG:
                                                                88 4A 22 B9 84 88 BB 5E
                                  20 88 56 18 R3 06 D1 FB
DCG:
                                  E3 FF 0F 89 46 86 89
                                                         56
       D1 DA E2 FA 89 58 20 81
DDG:
                                     LR 75 BC 8D 46 22 80
       1E 89 5B 28 8H 46 20 6H
                                  46
DEG:
                                                                "....+ F..E...
.Q..".t..v>
                                  46 86 89 46 4A H9 5E 1C
       5E 06 93 D8 B8 08 00 2B
DPG:
                                                                     ..t ..v>...
                                  17 8B 76 3E 8B 84 B3 04
 :003
       E9 40 01 83 7E UE 00 74
                                  89 48 1E 89 58 20 BB 14
                                                                ....\....N..
       84 8B E8 8B 5C 82 8B 8C
 E10:
                                                                .v>.....3..F
                                  8B FØ 8B 1C 33 CØ 89 46
       8B 76 3E 8B 84 83 84 82
E20:
       20 89 5E LE C7 46 06 UB
                                  00 8B 46 06 48 BB FO 8B
 E3Ø:
                                                                  E1 87 88 83 C1 30 83 D3
       5E 20 8B 4E LE 33 DB 81
 E40:
                                                                ..J"....
V..^_F
                                  5R 28 8B 56 1R 83 86 D1
       00 8R 4A 22 B9 03 00 8B
 E50:
                                  81 E3 FF 1F 89 46 #6 89
       FB D1 DA B2 FA 89 5E 20
E60:
                                                               V... F .F.u...
+F..F...
--- u..F...
                                                                   . F
                                  0B 46 IR 75 BC 8D 46 22
       56 1E 89 5E 20 8B 46 20
 E70:
                                  2B 46 06 B9 46 0A B9 5E
       8B 5F 06 03 D8 B8 0B .00
E80:
                                  75 85 C7 46 12 C8 88 C7
 E90:
       1C E9 AF 88 83 7E 12 FF
                                  46 12 7D 16 RB 7E 3E 8B
E4 85 CB 74 85 FF 46 BA
                                                                P....F.; F.)..
       46 0A 00 00 8B 46 0A 3B
35 8B 3C 03 P8 8A 05 30
 EAØ:
                                                                5.<..... ...t..F.
 EBG:
                                                                ...v>.....v>...p.f".F ....v>.
                                  04 92 BB FO BB LC 89 5R
 ECØ:
       EB E2 8B 76 3E 8B 04 83
                                  ØA Ø1 ØØ BB 76 3E 8B 1C
       1C EB 70 8D 46 22 C7 46
 EDØ:
                                                                .....F. .N".V.F.
       83 04 02 8B 0F 89 46 1C
                                  88 4E 22 EB 56 C7 46 1A
EE8:
                                  UØ EB 48 C7 46 1A Ø1 ØØ
                                                                ...O.F.. ..H.F...
EFØ:
       02 00 EB 4F C7 46 1A 00
                                                                .A3...6] .f...e..
                                  C3 66 80 PB 8C 65 00 F4 A
       EB 41 33 CØ 83 C4 36 5D
FØØ:
                                  8C 73 88 94 8C 6F 88 83
                                                                .g...c.. .s...o..
       8C 67 88 ED 8C 63 88 D3
F10:
                                                                .x.r.u.. .d....
                                  0A 64 00 82 0A BE 20 00
       ØC 78 ØØ 72 ØB 75 ØØ DØ
F20:
                                  FF A4 MB OD 83 EE 64 79
                                                                .;...u.. .....y
       2E 3B 84 09 0D 75 05 2E
F30:
                                                                ....F....F...F
                                  Ø3 E9 B2 ØØ 8B 46 16 85
       EF EB BF 83 7E 1C 90 75
F4 9:
       CØ 74 Ø5 3B 46 ØA 7D Ø6
ØA 29 46 16 C7 46 Ø6 ØØ
                                  8B 46 ØA B9 46 16 8B 46
F50:
                                  00 83 7E 0C 00 74 3F 8B
                                                                .)F..F.. .. -.. t?.
 F6.0:
                                  78 17 8B 46 86 FF 46 86
FF 46 1C 8A 95 88 84 EB
                                                                F.II...F. x..F..F.
 F70:
       46 0A 48 85 CØ 89 46 ØA
                                                                .v<...-. .F.....
       8B 76 3C 03 FG 8B 7E 1C
F80:
                                  46 16 78 51 8B 46 86 FF
                                                                ..F.H ... F.xQ.F..
 F90:
       DE 88 46 16 48 85 CØ 89
                                     14 88 04 EB E3 8B 46-
                                                                F..... F.....F
                                  46
       46 06 8B 76 3C 03 FØ 8B
 FAG:
                                                                .H...F.x ..F..F..
       16 48 85 CØ 89 46 16 78
                                  12 8B 46 66 FF 46 06 8B
 FRØ:
                                                                v<...F.. ....F.II.
                                  Ø4 EB E3 8B 46 ØA 48 85
       76 3C 03 FØ 8B 46 14 88
 ECØ:
                                                                ..F.x..F ..F..v<.
       CO 89 46 ØA 78 17 8B 46
                                  86 FF 46 86 8B 76 3C 83
 FDØ:
                                  85 88 84 EB DE 8B 46 86
       FØ 8B 7E 1C. FF 46 1C 8A
 FEØ:
                                                                .ve...F: @..6]..
                                  40 83 C4 36 5D C3 83 7E
       8B 76 40 89 84 8B 46 3A
 FFØ:
                                                                68 83 7E 12 14 7E 95 C7
1000:
       12 FF 75 Ø5 C7 46 12 Ø6
                                                                F....F.0
...s.v.P
       46 12 14 00 BB 46 12 40
BD 5E 18 53 FF 76 1A 50
                                  8D 5E 22 53 8D 5E 10 53
1010:
                                                                           ^>.7...
                                                                .T.S.V.P .^>.7...
                                  8B 5E 3E FF 37 E8 8E 6B
1020:
                                  8D SE 22 8B 4E 18 85 C9
       BB E5 8B 76 3F 83 84 08
1030:
                                  1C 79 03 F7 SE 06 83 7E
                                                                .F..N..
1040:
       89 46 BA 89 4E 86 89 5E
                                                                ..u. . t. ...).
       1A 02 75 11 83 7E 8A 08
                                  74 86 83 7P 06 46 7D 05
1050:
                                  00 74 03 FF 4R 18 33 CA
       C7 46 1A 09 00 B3 7F 0A
1060:
                                                                .F.,
                                                                         ..F..
                                  83 FF 46 66 83 7E 1A 08
1070:
       89 46 Ø6 83 7E 10 ØØ 74
                                                                ti.F.e.
                                                                t!.F.@. ....F...
...x..F. ....tl.F
       74 21 8B 46 12 40 8B 5E
89 5E 06 78 03 01 46 06
                                  06 03 D8 BB 46 18 85 CB
1080:
                                 83 7E 12 00 74 31 PP 46
1090:
                                  00 01 46 06 8B 46 18 85
46 18 3D 63 00 89 46 08
                                                                ..,.F...
                                                                          ..F..F..
       06 EB 2C 8B 46 12 05 06
10A0:
                                                                .y.... F.=c..F.
       CØ 79 Ø4 F7 D8 EB Ø3 8B
10B0:
                                                                _..r..
                                                                 E7 03 7E 03 FF 46 06 83
       7E 03 FF 46 06 81 7E 08
1000:
                                  3B 46 06 7E 21 8B 5E 66.
       7E-0C-00-75-29-88-46-16-
1000:-
                                                                ) ... F.H. .. F.x.. v
       29 5E 16 8B 46 16 48 85 CØ 89 46 16 78 10 8B 76
```



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<.F<.F.. ..F....
                                   84 FF 46 86 EB E5 83 7E
        3C PF 46 3C 8B 46 14 88
10F0:
                                                                  ..t..v<. F<..--
                                    46 3C C6 84 2D 83 7E 1A
       10 00 74 09 8B 76 3C FF
1100:
                                                                  .u....F ...yd.v<
                                   18 85 CØ 79 64 8B 76.3C
        80 75 83 E9 E2 88 88 46
1110:
                                   30 88 F0 89 46 3C 40 C6.
        8B C6 89 46 64 40 C6 04
1120:
                                   48 85 CØ 89 46 12 79 63
                                                                  ...P<.F. H...F.y.
       04 2E 89 46 3C 8B 46 12
E9 8F 01 8B 46 18 40 85
1130:
                                                                  ....F.@. ..F.y..v
                                   CØ 89 46 18 79 0B 8B 76
1140:
                                                                  <. F<...0. ..F.H...
                                   DC 88 46 8A 48 85 C8 89
        3C FF 46 3C C6 Ø4 3Ø EB"
1150:
                                   46 3C 8B 7E 1C FF 46 1C
                                                                  P.x..v<. F<.-..F.
       46 ØA 78 12 8B 76 3C FF
1160:
                                                                  .....v <.......g.
                                   3C FF 46 3C C6 84 38 EB
       8A 05 88 04 EB BF 8B 76
1170:
                                                                  ..F..N.. x(.F.H.
                                   CØ 78 28 8B 46 0A 48 85
3C FF 46 3C 8B 7E 1C FF
       B4 8B 46 18 FF 4E 18 85
1180:
                                                                  ..F.x..v <.F<.-..
       CØ 89 46 ØA 78 12 8D 76
1190:
                                                                 8B 76 3C FF 46 3C C6 84
        46 LC 8A 05 88 04 ER D9
11 AG:
                                   09 8B 76 3C PF 46 3C C6
        38 EB CE 83 7E 12 00 74
1180:
                                   89 46 12 79 H3 R9 G2 B1
GA 78 12 BB 76 3C FF 46
        84 2E 8B 46 12 48 85 CO
11C0:
                                                                  .F.II...F .x..V<.F
       8B 46 ØA 48 85 CØ 89 46
3C 8B 7E 1C FF 46 1C 8A
1100:
                                   95 88 04 RB D5 RB 76 3C
                                                                    -..F.. .....v<
11E0:
                                                                 .F<..G.. .F.II...F
.x..v<.F <.....F
....v< .F<..G.v
                                   8B 46 UN 4B 85 CO 89 46
       FF 46 3C C6 84 38 EB CA
llro:
                                   3C 8B 7E 1C FF 46 1C 8A
       ØA 78 12 8B 76 3C FF 46
1200:
                                   FP 46 3C C6 84 18 8B 76
46. 12, 48 85 C0 89 46 12
       95 88 94 EB 99 BB 76 3C
1210:
                                                                  <.... F.H...F.
       3C FF 46 3C C6 Ø4 2R BB
1220:
                                   89 46 0A 78 12 8B 76 3C
                                                                 x(.F.H.. .F.x..v<
       78 28 8B 46 GA 48 85 CF
1230:
                                                                 .F<.-..F ......
                                   1C 8A 05 88 84 RB D8 8B
       FF 46 3C 8B 7F 1C FF 46
1240:
                                                                 v<.F<..0 ...v<...
                                   EB CD 88 76 3C 88 C6 89
       76 3C PF 46 3C C6 84 30
1250:
                                                                 P.O.E. ....P<y.
                                   18 85 DB 89 46 3C, 79 8D
       46 88 48 C6 84 45 HH 5E
1266:
                                   P7 5K 18 EB 09 8B 76 3C
       8B F0 FF 46 3C C6 64 2D
1270:
                                                                  .Pc..+.F ....F.II.
                                   BA BB BB BB 46 BA 48 BB
       FF 46 3C C6 84 28 C7 46
                                                                 1280:
       PS 89 46 OA 8B 46 18 BB
88 52 22 BB 46 18 99 F7
                                   UA 00 99 F7 FH H3 C2 36
1296:
                                   PB 89 46 18 83 7E BA 89
1240:
                                   BB 46 UA 3D OH 00 7D 12
       7F D9-83 7E 18 00 75 D3
1280:
                                                                 .v<.F<.F ....C"...
....u) .F.;F.-!
...) ^..F .H...F.x
                                   HA BB PR BA 43 22 BB 04
       8B 76 3C FF 46 3C FF 46
12C0:
                                   BB 46 16 3B 46 U6 7R 21
16 4B B5 CO B9 46 16 78
       EB E6 83 7E UC 01 75 29
12D0:
       8B 5E 06 29 5E 16 HH 46
12E8:
                                                                  ..v<.F<. F....F.:
                                   46 14 88 84 PF 46 86 EB.
       10 8B 76 3C FF 46 1C BB
1210:
                                                                  ..r..ve. ..r:e..6
                                  TO4 HB 46 3A 40 83 C4 36
       ES 8B 46 06 HB 76 40 H9
1300:
                                   C7 46 04 00 00 80 46 84
                                                                 }.U....F...F.
       50 C3. 55 83 EC 68 88 KC
1310:
                                                                 =..]...
1..t.F....
                                   27 KB 8B D8 8B 87 86 02
       3D 10 00 7D 15 BB 00 00
1326:
       25 88 80 74 85 FF 46 84
C7 86 76 83 17 00 BE FF
                                   EB RT BT 7E BT 10 75 BK
1330:
                                   EE B3 C4 HH 5D C3 HB 46
1340:
                                                                  02 40 40 50 FF 76 8C E8
C7 06 76 81 82 88 B8 FF
       04 BB 0C 00 F7 KB 05 B6
1350:
                                                                  .....t. ..v....
       C6 0H BB E5 B5 C0 74 BE
1360:
                                   88 8B 5E OF 81 E3 08.86
                                                                  ,...l... ..<sup>-</sup>
       FF 83 C4 88 50 C3 88 80
1378:
                                                                           ,..F....
                                   00 01 8B 45 64 BB 0C 68
                                                                 .r.t..N.
       89 46 06 74 05 81 48 06
1380:
                                                                 499....
                                   FF 76 06 MF 76 04 E8 FU
                                                                            .v..v...
1390:
       P7 EB 85 B6 02 40 40 50
                                   74 08 67 06 76 03 05 00
                                                                 ....x... t...v...
       0C 8B E5 A3 78 03 85 C0
B8 FF FF 83 C4 08 5D C3
13 NØ:
                                                                 .....). ...P.v..
                                   BB 04 00 50 FF:: 76 04 ER
1300:
                                                                             ....F
                                   5E BE E7 C1 00 00 89 46
                                                                  . . . . . . . .
       CF 0C 80 E5 08 00 80 80
13C0:
                                                                 .t..N....f....
                                   81 66 BE PF 7F 83 7E 8E
        06 74 UN 81 4E 06 00 10
1300:
                                   EB 0B 83 7E 0E 01 75 05
                                                                  .u..N..0
       00 75 07 81 4E 06 00 40
13KG:
                                   F7 6E 04 BB F0 BB 46 06
                                                                  .N.. ... .n....F.
       81 42 96 89 29 38 90 98
1388:
                                                                  C4 08 50 C1 55 83 EC 88
        89 84 B6 62 8B 46 64 83
1400:
                                   46 84 30 18 80 70 15 BB
       8B EC C7 46 04 00 00 8B
1410:
                                                                 F..... u...v...
                                   B6 82 25 00 80 74 85 FF
       -9C 00 F7 EB 8B D8 8B 87
1428:
                                   75 UE C7 U6 76 03 17 00
       46 04 RB E3 83 7E 04 10
1430:
                                   8B 46 04 BB 0C 00 F7 EB
       B8 FF FF 83 C4 08 5D C3
05 B6 02 40 40 50 FF 76
1440:
                                                                 ...00P.v ..v....
                                  OR FF 76 OC K8 87 8A 8B
1450:
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× .					r"						ŷ.								
14604	E5 8	5 7	ca	74	a e	C7	06	76	03	00	ØØ	1313	FF	PF	83	C4		tv	
1460:	ØB 5		CD	73	an.		8B			81		Øß		89	46	Ø 6		.)P.	
1470:	88 2	10 9	C 2	00	96		g1		46	04	ISD	ac	au		KB			tN F	
1480:	74 8			45	60	_	76				RA	KR	F3	an	BB	85		V	•
1490:	B6 8			40		74			96		03	45	nu.	na	FF	FF		.xtv	•
14A0:		18						00		FĽ					OB] P.V	•
14B0:	83 C					CC.	_	F7		BB					89			F	• '
14C0:	E5 8	3B 4		04	-			_	80	00					81			NF.t	
14D0:	B6 0				-,	81			C4						EC			F].U	
14 EG:	B6 0			10				83	04	30	20 20	an	75	aF	C7	96		Fx .=	
14F0:	8B E					85			03	30	90	03	011	46	8C	na na		v	
1500:	76 8					PF			C4	ผล	טכ	03	20	40	86	99			
1510:	0C 0	30	£7	EΒ			81		86	02	88	20/	77	90	00	.00		*.t.%. tv	_
1520:	5E 0	34		95		00		74	ØE	Ç7	96	76	23	צט	ØØ	DO	. 4] FvD	
1530:	FF E	P.	83	C4	89	5D	C3	8B	- 46					89	44	00			
1540:	8B 4					ØA		01.			10				10			.FD Ø	
1550:	46 8					4 E	06	00	Øl	8B	46	84			88			F.tNF	
1560:						9C		28	ØB	8B	.E5	٠٨3			48			.vv(x.R	u
1570:	07 3		ca ·	07	CA	aR	50		83	3 E	78	Ø3	ØØ	74	ØE	C7		.3)>xt.	
1580:			Ø3	02	aa.	B8	50	EE.	ดร	CA	aa	SD	C3	88	76	04.		.v	•
	8B 4					Ø8			55	83	EC	Ø8.	88	. EC	88	46		.D U	F
1590: 15A0:	ØC 8			78			ØF		7 E	ØE	. C7	86	76	63	69	00		v	
	B8 E	.E							88	46	ØC	នាន	ØC	вø	F7	EΒ		······································	•
15B0:	8B C	70	81	C3	B6	g 2	8B	Ø 7	λ9	00	80	89	SE	94	74	Ø5			•
15C#:	25 6		AG	74	ar	C7		76		89	ØØ	138	FF	PP	83	C4		\$.@t∨	•
15DØ:	Ø8 S	בים בים	~ O	92	46	1a	RR		64	89	44	86	813	46	g E	89		.1FvDF.	•
15E0:	44 6	יינ	50	αn	70	90	10	R1	E3	aa	10	89	46	86	74	Ø5		DgF.t	•
15F0:	81 4	0 A	80	02	.a.	90	16	ΠĀ	95	Ø6	60	58	FF	76	Ø6	FF.		.NFP.V.	•
1600:													Ø3		87	33		v. = x.u.	3
1610:	76 6								78		ØØ				06	76]> xt	
1620:	CØ I	B 3	C4	98	20	C3	8.3	26	1.5						BB				
1630:	Ø3 (Ø5	ØØ	B8	FF	FF			Ø8		C3							F.	
1640:	98 1	83	C4	Ø8	5D	C3	55		EC						0E			.x.=~v	•
1650:				3D		Ø Ø			Ç7	66	- 76	03	69	88	n8	FF	:	.x.=	•
1660:	FF I	вв	FF	FF	83	C4	Øλ	5D					BB	8C	90	F7	-		•
1670:	EB I	88	DB.	8B	87	B6	62	25	88	80	75				76			8uv	. •
1680:	89	00	B8	FF	FF	BB	FF	FP	83	C4	ΘŊ	50	C3	8 B	46	14			:
1690:			33	CØ	33	DB	85	CØ		. Øł					٨3			.03.3 y.K.F	Ŷ
1640:	93	89	SE	0.8	ВB	4C	RD	46						50	FF	. 76		x7.F.P	,-
16BØ:	ØE	68	DD	09	813	£5	٨3	78		EB	37	81)	46	0.0	50	BB		.!P.v x	i
16C0:	08	21	58	FF	76	ßE	ĸß	C8	09	811	1:5	Λ3	78	03.3	KB.	22		V	ı
·16D0:	C7	86	76	83	16	· UØ-	138	FP				FF	13 3	C4	NV	50		v	
16E0:	C3	31)	02	Ø 0	74	1)5	31)		uu		1111				74			>xtv	•
16F0:	EB	DΕ	83	3 E	78	Ø3	(1 ()	74	11						0.0		:.		•
1700:	FF	FF	BB	EE	PF	83	C4	ØΛ	50				េមព						
1710:	8B	5 E	88	11	5 F.	12	81)	46	10		1111				F.F.				
1720:	σE	88	60	09	ЯB	R5	ΛI	78	03		C:O				116			mxt	. v
1730:	Ø3	05	00	138	FF	FF	BB	LL.						(,3	817	46			, E
1740:	10				GU			76	O.E.	EB	45				LA			.p.,.p.vR	
1750:		85			11			76	03	45	UO	118	k.h	F 1	. 1113	FF		tv	•
1760:						C3		46	12					C4	Λ	50			
1770:						813		1115	46	UA	. 85	CO		0.5		84		.u Px.	
1780:									ØØ	178	PF	FF	. 63	C4	06	50		v	, į
1790:	C3						UB	F7	EB	11 13	108	81	ง ช7	1116	02	25	·	. F	
17A8:	80				C7				ניט	. 88	BH	∏r'i	_F.F	-B	1"1"4	-66-		v.	
1700:	5D						۲F	76	BA	E.8	05	018	1 131	1 F.	M			}P.v	
17C0:						89	46	u2	88	Cf	. 68	8)	1 K	8	46	04		.S.vFl	: •



```
8B D8 33 C8 89 87 B6 62
                                                              .F.....
       8B 46 8A BB 8C 88 P7 EB
17D0:
                                 84 88 74 88 BH PP FF 83
       83 7E 02 00 75 06 83 7K
                                                              ..1.3... .1.0...
17E0:
                                 86 50 C3 55 83 EC #C 88
       C4 06 5D C3 33 CH R3 C4
                                                                 ..u.1 ....]..F
17FØ:
                                 CO 83 C4 BC 50 C3 88 46
       EC 83 7E 10 00 75 07 33
                                                              1800:
                                 ES BE SG 03 SB IC 89 46
       18 05 04 00 48 D1 R8 D1
                                                              ....v.. = ..tk.v.
1810:
                                 7E 84 80 74 48 88 76 84
       ØA 89 5E 64 89 76 66 83
                                 77 2F 3B C3 75 #9 8B #4
76 #4 8B 44 #2 2B 46 #A
1820:
       8B 44 02 8B 5E 0A 3B D8
1830:
                                                              .v.... v..D.+F.
       8B 76 66 89 64 EB 13 8B
                                                              .D..... F..F.)..
1840:
                                 46 84 8B 46 UA 29 66 82
       89 44 62 DI EO DI EO DI
                                                              ..F.....P.....P
1850:
                                 C3 8B 46 84 8B F8 8B 1C
       03 8B 46 04 83 C4 0C 5D
1860:
                                 8B 46 0A DI EØ DI EØ 50
       89 46 06 89 5E 64 EB AF
1870:
                                 3B C3 89 46 08 74 85 83
       ES EA OB SB E5 DB FF FF
                                                              ØC 5D C3 55 83 EC 10 8B
1880:
       C4 6C 5D C3'33 C0 83 C4
                                                              1890:
                                 FF FF 83 C4 10 5D C3 8B
       EC 83 7E 16 80 75 88 B8
IRAR:
                                 4B DI EB DI EB. 89 SE ØE
      46 14 8B 5E 16 83 C3 84
D1 E3 D1 E3 89 46 0A 83
                                                              ....F. .N. ....F
1880:
                                 C3 8B 5E 8E 01 1E 82 83
89 4E 82 89 5E 86 8B 46
18C0: -
       BB 80 03 8B UF 89 46 UC
18DØ:
                                                                       ...\...
                                 8B FØ 8B 5C #2 D1 R3 D1
                                                              ...u...
       02 85 C0 75 03 E9 D1 U0
                                                              ....v. P .v...v.
18EØ:
                                 04 76 18 88 C6 88 76 9A
       E3 83 C3 3B 76 0C 89 46
                                                              ...P..D. ...v...3
...].F.;P.u
.....F.D.E.
18F0:
                                 8B C6.8B 76 86 89 84 33
       89 84 8B 46 8E 89 44 82
1900:
                                 92 3B 46 8C 75 28 8B P0
       CG 83 C4 16 5D C3 8B 46
1910:
                                 46 GR 03 44 02 89 45 02
       8B 1C 8B 7E 6A 89 1D 8B
1920:
                                                              ...v...3 ....]..F
                                 CØ 83 C4 18 5D C3 8B 46
       8B C7 8B 76 06 89 04 33
1930:
                                                              .; F.s..F .).....
                                 ØR 29 86 82 83 88 FP FF
       ØA 3B 46 Ø4 73 ØE 8B 46
                                                              ...l..F. ;F.uF.v.
1940:
                                 3B 46 04 75 46 8B 76 02
       83 C4 10 50 C3 8B 46 6A.
1950:
                                 ØC 3B D8 76 0F 8B 46 ØE
       8B 04 85 CØ 74 16 8B 5E
1960:
                                 C4 18 5D C3 8D 46 6E 8D
                                                              )....F.
       29 06 82 03 BB FF FF 83
1970:
                                                              v..D.... .t..
                                 CØ 74 11 8B 5E ØC 3B DR
                                                             76 92 01 44 62 8B 94 85
1980:
                                 813 87 89 84 33 C8 83 C4
       75 UA 8B 47 02 01 44 02
                                 94 8B PO BB HC 89 46 06
1990:
       10 5D C3 8B 46 02 8B 5E
19A0:
                                 FF 8B 46 HA 8B 76 H6 89
       89 4E 02 89 5E 08 E9 25
1980:
                                  46 BE 89 44 82 8B C3 83
       .04 33 DB 8B F0 89 1C 8B
                                 8B EC AL 84 03 BB LE 86
82 03 74 0C 8B D8 C7 97
19C0:
                                                              ..1.0...
       C4 10 50 C3 55 83 EC 02
                                                              ...... ..t....
1900:
       03 85 CG A3 80 03 89 1E
                                                              .....G. ...1.U..
19E0:
                                  83 C4 02 5D C3 55 83 EC
       66 66 A1 82 63 89 47 62
19FØ:
                                  00 C7 06 86 03 00 00 C7
                                                              F....v. S.....;
       08 8B EC C7 06 84 03 00
1 A Ø Ø :
                                  53 GA BB E5 BB FF FF 3B
       46 06 00 01 FP 76 06 E8
                                                              ..F.u....)..F.
.1A10:
                                  83 C4 08 5D C3 8B 46 04
       C3 89 46 Ø4 75 Ø7 BB C3
                                  03 FF 76 06 E8 2E GA 8B
83 06 86 03 40 EB EA E8
1 A 20:
                                                              ....e... ..v....
       C7 06 86 03 40 00 A3 84
1130:
                                                              ....;.t. .....e...
       ES BB PF PF 3B C3 74 07
1 1 4 9:
                                                              ................
                                  C3 55 83 EC 62 88 EC Al
       82 FF 33 CO 83 C4 08 5D
                                  C3 55 83 EC 84 88 EC 89
                                                               ......1 .0.....
1 A 5 0 :
       82 83 D1 EØ 83 C4 82 5D
1 1 60:
                                  33 DB E9 BF DH 89 46 82
                                                              N...u.3. 3....P.
       4E 00 0B CA 75 07 33 C0
                                                              ..u.3.3. ....N..F
1170:
                                  E9 81 88 80 4E 00 8B 46
       ØB C3 75 Ø7.33 C9 33 D2
188:
                                                              ....y.. .....3
.v.3...y .....
       02 8B F0 85 F6 79 07 F7
89 76 00 33 F6 85 C9 79
                                  DO ET DE 1D EF FF 33 FL
1198:
                                  07 F7 D1 F7 DA 83 D9 FF
                                                              u...x..
.r.+.Cou .3....i
1 1 1 1 0 :
                                  00 DI E3 DI D0.D1 D6 3B
       75 1D 85 D2 78 19 BF 20 F2 72 03 2B F2 43 4F 75
                                  FØ 33 C9 8B D6 EB 21 BF
3B Fl 72 GB 75 #4 3B C2
LABØ:
                                                               ...... ;.r.u.;.
lace:
       10 00 D1 E3 D1 D0 D1 D6
                                                               r.+...CO u....3.
IADØ:
                                  75 E8 8B CE 8B DØ 33 CU
       72 05 2B C2 1B F1 43 4F
1AE0:
                                                               DØ E7 DB 1D FF FF F7 46
       F7 46 00 00 80 74 07 F7
                                                              IAFG:
                                  DA 83 D9 FF 83 C4 84 5D
       02 00 80 74 07 F7 Dl F7
1BG0:
                                  04 8B 4E 06 1B 56 88 8B
       C3 BE 40 00 33 C0 88 5E
                                                              1810:
                                  D1 D3 D1 D8 3D 8A 88 72
       7E GA: D1 E7 D1 D2 D1 D1
1B20:
       94 2D GA 00 47 4E 75 EA 89 5E 04 89 4E 06 89 56
```

1830:



		· /													
	g8 89		a. c.	O D	is	a s	nı'	FA	89	46	ġĄ.	88	46	08	'FFF.
1B40:	D1 D6	/E	4E 00	0.0	46	à G		DØ	8.9	46	36	BB	46	04	FFFF.
1B50:	D1 D0	89	40 00	60	90	00	33	C9	nΙ	EΘ	ρl	Dl	D1	EØ	F 3
1860:						Dl	23	n)	nì	C3	33	Ċ9	BE	96	
1870:	D1 D1				64		חכ	PP.	RB	513	94	03	C3	83	cK
1880:	00 8B D1 00	4.3	42 64				FR	ก้า	813	46	04		5E		C.00yP
1890:					D)	FR	กใ	DIS	nì	D9	DΙ		4 E	75	.NVNU
1880:	8B 4E F5 89	46	00 A0				4 E	as	89	56	ØΛ	C3	55	83	F NVU.
1880: 1800:	EC 28	90	PC C7	46	aa	aa	aa	C7	46	ØC	00	00	88	7.6	. (FFV
1800:	2C 8B	AA	Ø6 85	CØ	79	85	81	4 ₽	ØB	ØØ	80	25	EE	7£	,.Dy. N&
1BE0:	75 10						99	ØB	7C	02	75	Ø4	ØB	3C	u .u .u<
1BFØ:	74 7C						03	89	46	ØF.	813	ØC	8 B	5C .	t \
1C00:	Ø2 8B						D2	BF	05	Øß	Dl	EE	D1	D8	Dt.3
1010:	D1 DB						£3	ØD	00	80	89	46	04	89	OuF
1C20:	5E 06								ØC				76		v. Fv.
1030:	8B CE								Ø3				Øl		tiyx
1C40:			FF 46						PR.			ЯC	EB	OF .	.WFF
1050:	BE 94		Ø1 76				EF	ER	20				ØC		vAN
1C60:	46 94			C7		4 E			D9				33		FuN3.
1C78:	81 4E		88 48						OR		75		8 B		.N@3 F@u!.F
1C80:	04 0B			88			88	ØB	46	ØA		11	E8	EB ·	F.uFF.t
1C90:	FE 85							05					EF		u uN
1CAG:			4h 14				14	7C	CΛ	Ċ7			01		.Ø.J.F
1CBØ:	8B 46	30	88 76	2 E	85	CØ	74	ØВ	В9				46		. PØ. v tF.
lccg:	48 93	FØ '	78 2D	B9	14	00	83	FE	_				CE		Hx
1CDØ:	42 15							42					.14		B<: B. G. B
ICE0:	42 14												90		B.NyE. N 0.t
1CF0:	81 41	8B '	7E 36	8B	76	10	33						Ø5		.λ. 76. v. 3BC
1000:	47 3B						14	7C	EF,				Ø5		G;.}.F
1010:	43 3B						.E7		93				88		C; 1.3Ft
1D28:	46 00				48		76	34	89				ØC	88	P Pu.H. v4F
1D30:	76 32					00	. 40						Cl		v2F @t.3
1040:			C3 83				.74	89					46		.(), tF,.F,
1D50:	08 80	-				46			4 F.					4 E	VØ.FN.uN
1060:	00 00						819	74	-	1111		PP		55	FtU
1070:			BB EC		CO			OU	89				46		.PFPFF.
1D80:	89 46							89	46		F2	30	BA	75	
1D90:	B2 FF				B L	4 E 9 B	ug ef	88 30	20 30	70			39		.N <0 8<9.
IDAG:	98 81 34 81				89		10	813	46				0C		4.NFP.)F
IDBO:	46 04				FF.								88		FtFF
inco:	10 25				(IA				00			06		. 83	.1F V,V
lDEG:			EB CI		2 E						85	CO.	75	42	V<.uFuB
lDF0:	FP 46				45	74	94	10	65	75	35	EB	44	FF .	.F <et .<eu5.d.<="" td=""></et>
1 E80:	3C 2B					0.8	81		06		10	EII	34	FF	<+L,<-u. N4.
LELØ:	3C 30					l٨	24	OF	89	46	3 ()	8113	. 46	0 E	<#1.<9. \$FF.
1 E20:	E8 43					46	ØE	30	FF	OF	72	111	Ð	E.8	.cfF .*r
1E30:	EB F4					75	0 F		co				68.	0.4	f u .3.:v2
1 E40 :	813 46				511				0 F:				(1)	10	.r()rr
1850:	74 02				HC	813						(II)	4 6	BR	tf FFF.
1E60:	Ø13 46	UA	75 01	E9	83	UØ	· C7	46	UK	3 E	114	٢7	46	04	.P.u F.>F.
1E70:	00 HB								EH					85	. u N F
1E80:	CU 74						OL	76	OE	KB	HC:	, ND	EB	EB	.t.xv
-1E90:-														46	NxFF
lead:	OE 85	Cü	78 41	31)	F.F.	0.7	71	37	13.1	U 4	1) \$	1:13	02	.:46	



```
4E 08 8B 56 UA 8A D6 8A
                                                               ..P..^.. N..V....
       ØE 8B 46 Ø4 8B 5E 06 8B
1 EBØ:
                                  FB BA C4 BF 61 66 D1 28
       EL BA CD BA EB BA DE BA
1ECØ:
                                                               ....Ou .t...F..
                                  PS 25 DF 00 OB 46 OF RB
       DI DB DI D9 DI DA 4F
1 E00:
                                  33 DH 33 C9 33 D2 HB 76
       0D N8 FU 7F EB 02 13 CO
LEEU:
                                  OD UH 8U 89 44 UG 89 5C
                                                               4.F...t. ....D...\
       34 27 46 80 80 80 74 83
lerø:
                                                               ..t......v2...F
                                  ØØ 88 76 32 89 Ø4 8B 46
       04 89 4C 62 89 14 B8 01
LEGO:
                                  EC 92 8B EC C6 46 81 16
       12 83 C4 28 5D C3 55 83
1F10:
                                                               .F..F... U.....F
                                  55 83 EC 02 8B EC C6 46
       8B 46 8A 89 46 88 EB 8A
1F20:
                                  8B E5 85 CG 75 G4 E7 DØ
                                                               ...v... ...u...
       01 0F FF 76 U6 E8 C4 05
1F30:
                                  07 AB 80 75 16 AB D3 8A
       EB 25 8B D8 8B 7E 08 8A
1F46:
                                                               f..!..t. S.e....
                                  53 E8 65 67 BB R5 B8 PF
       66 81 CD 21 84 CB 74 8B
1F50:
                                                               ....3.. ..].u...
                                 C4 02 5D C3 55 8B EC PF
       FF EB Ø4 89 1D 33 CØ 83
1F60:
                                 CØ 75 84 F7 DØ 5D C3 8B
                                                               v...... .u...]..
       76 04 E8 87 05 8B E5 85
1F70:
                                                              D3 B4 13 CD 21 84 CØ 74
       D8 8A 07 A8 80 75 1B 8B
1F88:
                                 FF FF 5D C3 53 E8 21 07
       ØB 53 E8 2C Ø7 8B E5 B8
1F90:
                                 B9 07 00 BB 77 2E 81 FE
       8B E5 33 C8 5D C3 51 56
1FAØ:
                                                               ..t.A... .t.A....
                                 01 74 0H 41 81 FE 00 02
       80 00 74 0F 41 81 FE 00
1FB0:
                                 D1 DA 62 FA 8B C2 8B D6
                                                               t.AN# ... ......
       74 01 41 4E 23 F2 D1 E8
1FCG:
                                 8B 77 2E 81 FE 80 00 74
41 81 FE 00 02 74 01 41
       5E 59 C3 51 56 B9 07 00 0F 41 81 FE 00 01 74 08
                                                               Y.QV... .w....t
                                                              lfDG:
lfE0:
                                 92 5R 59 C3 C6 46 Ø3 27
       33 D2 D1 E0 D1 D2 E2 FA
1 FF0 :
                                 8B 47 30 3B 47 2E 75 13
       EB 04 C6 46 03 28 52 51
2000:
                                                               .G....G 2.G!.G#.
                                 32 89 47 21 C7 47 23 66
       89 47 0E B9 01 00 8B 47
2010:
                                 8B 47 32 E8 A5 FF 89 57
                                                               ....G... .G2....W
       00 EB 14 C7 47 0E 01 00
2020:
                                                               1.G#.00. ....4.!
                                 lA 8B D3 83 C2 34 CD 21
       21 89 47 23 8B 4F 30 B4
2030:
                                                               ...f..12 .YZ.;G2u
                                 E4 59 5A C3 3B 47 32 75
       8B D3 8A 66 03 CD 21 32
2040:
                                 84 C8 74 8C E8 A3 FF 85
                                                               .3..P.G% ..t....
       03 33 C0 C3 50 8A 47 25
2050:
                                 88 47 25 58 89 47 32 3B
                                                               .t.X..... G%X.G2;
     . CO 74 05 58 B8 FF FF C3
2060:
                                 89 47 30 C3 8B 46 08 89
47 2E 89 47 30 E8 6C FF
                                                              F.r.t.3. .G0..F..
       46 06 72 13 74 06 33 C0
2070:
                                                              GØ..u... G..GØ.1.
       47 30 85 C0 75 07 C3 8B
2080:
                                                              .U.... V.....
                                 76 12 81 E6 0F 00 83 FE
       C3 55 83 EC ØC 8B EC 8B
2090:
                                 88 9D 88 03 8A 07 85 F6
       0D 74 0B 8B 7E 10 D1 E7
20 A0:
                                 75 03 E9 P5 00 83 FE 02
       75 03 E9 AA 00 83 PE 01
75 03 E9 71 02 83 FE 04
20B0:
                                 75 03 EB 4C 90 83 FE 05
                                                              u..q... u..L....
20C0:
                                 75 03 E9 A8 00 83 FE 0D
       75 03 EB 66 90 83 FE 08
75 03 EB 1C 90 83 FE 0E
                                                              u..f.... u......
20D0:
                                 75 8C EB 24 98 83 C4 8C
                                                              u..... u..$....
20 E0:
                                                            5D C3 33 C0 EB F7 B8 FF FF RB F2 B8 61 00 EB ED 8B 5E 14 8B 07 8B 7F 10 D1 E7 89 85 88 03 EB F2
                                 FF RB P2 118 G1 G0 EB ED
20F0:
2100:
                                 A8 88 75 1C 33 CØ 89 47
       53 E8 AD 05 8B E5 EB DA
2110:
                                                              (.G&.G%. ..G2.G..
                                 DO 89 47 32 BB 47 10 89
       28 89 47 26 88 47 25 F7
2120:
                                 ED BB AB 88 75 1F 33 C9
BB FR 85 CB 74 01 41 8B
                                                              G*.G..G, ....u.3.
       47 2A 8B 47 12 89 47 2C
2130:
                                                              .G%..t.. ....t.A.
       8A 47 25 84 CØ 74 ØR E8
2140:
                                                              9D 85 C9 75 99 EB 93 AR
       D3 B4 10 CD 21 84 C0 75
2150:
                                 02 3H 47 2C 72 0C 75 86 7C FF 8H 0H 89 47 28 89
2160:
       80 75 93 8B 7E 14 8B 45
       8B 0D 3B 4F 2A 76 03 E9
2170:
                                 26 BB 7E 14 F7 46 12 98
       4F 26 E9 6D FP A8 88 75
2180:
                                                              .u..G(.E ..Gs...Q
                                 02 8B 47 26 89:05 E9 51
       01 75 NE 8B 47 28 B9 45
2190:
                                 47. 2A 89 05 E9 43 FF E9
76 14 8B 0C 85 C9 78 20
                                                               ..G,.E.. G*...C..
       FF 8B 47 2C 89 45 82 8B
21 AØ:
                                                              D...t_.. v....x
       44 FF AB 80 74 SF FC BB
21BØ:
                                                              .|..F... t..g...t
                                 74.1C BA 67 03.84, E4 74
       8B 7C 04 F7 46 12 00 01
21 CO:
                                                               8B 0C 89 4C 02 E9 L2 FF
       ØF. E3 Ø5 CD 21 AA H2 FB
2100:
                                                               ....t..
                                 8A 67 81 84 84 74 FL CD
       E9 18 FF E9 10 FF E3 FG
21E0:
                                                              !<.u.... .G.g...t
                                 15 47 UA 67 N2 84 E4 74
       21 3C 8D 75 17 B2 0A 8B
21F0:
                                 02 E9 R6 PE TC IA 74 DU
                                                              ..!+|..| ....<.t.
       02 CD 21 2B 7C 04 89 7C
2200:
                                                              .....v. ....x.t.
                                 8B 0C: 85 C9 78 C5 74 CH
       AA E2 DC EB C3 88 76 14
2218:
```

1 3 100



```
.G(.Ws.. ...;G,r.
                                 15 80 00 1B 47 2C 72 8D
       8B 47 28 8B 57 26 03 Dl
                                                              u.;W*v.. 0*+0&.L.
2220:
                                 4F 2A 2B 4F 26 89 4C 02
       75 Ø5 3B 57 · 2A 76 Ø6 BB
2230:
                                                              FD 8H 7C 04 NB F2 89 46
                                                               ..G,.W*. L..F..V.
       8B 47 28 8B 57 26 E8 5D
2240:
                                  4C FD 89 46 06 89 56 08
       04 BB 47 2C 8B 57 2A E8
                                                               .F..... uJ.G..F.
2250:
                                  75 4A 8H 47 2E C7 46 GA
       8B 46 64 E8 E6 FD 85 CH
                                                               ..... +..N....
2260:
                                  2B C8 89 4E (IA 8B C8 93
       00 00 2B C6 3B C8 7R 07
                                                               ...4.... N...3..F
2270:
                                  4E 8A R3 07 33 F6 FP 46
       F3 83 C6 34 FC F3 A4 811
2280:
                                                               ....WE.G (.v..L..
                                  28 8B 76 L4 8B 4C 62 63
       04 EB CD 8B 57 26 8B 47
                                                               ....W&. G(.F...t
2290:
                                  47 28 27 46 12 88 81 74
       D1 15 00 00 89 57 26 89 06 E9 3E FE E9 3F FE C6
                                                               ..>..?.. F...G*;G
22A8:
                                  46 02 00 8B 47 2A 3B 47
                                                              &u.:G,;G (t..G(.W
                                  28 74 1A BR 47 28 BB 57 PD 85 CØ 75 D7 B3 C6 34
22B0:
       26 75 88 8B 47 2C 3B 47
                                                               £.....4
22C0:
       26 E8 D2 FC 8B F2 E8 73
                                  8B 4C 62 8B 74 H4 8B FR
1A 74 2F 3C 6D 75 HE E3
                                                               ...F..v. .L..t...
3....I< .t/<.u..
2200:
       BA 00 88 46 02 8B 76 14
22E0:
       33 D2 EC E3 2C AC 49 3C
                                                               ..BIC.t. NJA....
                                  4E 4A 41 BØ ØD AA EB 63
22F0:
       ØF AC 42 49 3C ØA 74 Ø5
2300:
                                  26 01 83 57 28 00 BO 0A
                                                               .~..u..G &..W(...
       80 7E 02 0A 75 0A 83 47
2310:
                                                               ..v.)T.. ...v.+|.
                                  C8 ED 8B 76 14 2B 7C.84
       AA 8B 76 14 29 54 82 89
                                                               .|.... tG.-...
2320:
                                  74 47 8B 7K 14 8B 8D 8B
       89 7C 02 E9 BC FD A8 80
2330:
2340:
                                  18 8A 67 84 84 E4 74 89
E9 8B 8D 89 4D 82 E9 91
                                                               u. . P. . . t . . . g. . . t .
       75 04 E7 46 12 00 01 74
E3 07 8A 14 46 CD 21 E2
                                                               ...F.!. ....H...
                                                               ....g... t...E...
                                  74 RF 8A 14 46 80 FA 8A
2350:
       FD E3 F6 8A 67 82 84 E4
2360:
                                                               u....!.. .!....u
                                  CD 21 R2 EE EB DB E9 75
       75 06 B2 0D CD 21 B2 0A
                                  78 F4 74 CD C6 46 B2 B8
8B 57 26 E8 B8 FC B9 46
                                                               ..v. x.t..F..
2370:
       FD 8B 76 14 8B 8C 85 C9
                                                               .F...G( .W6...F
2380:
       C7 46 66 66 66 88 47 28
2390:
                                  2A EB PA FB 89 46 96 89
        04 8B FA 8B 47 2C 8B 57
23A0:
                                  E8 91 FC 85 C9 75 BF C6
                                                               v..t..F. ....u..
        56 08 8B 74 04 8B 46 04
                                  0A 00 00 2B C7 3B C8 7E
03 FB 83 C7 34 FC F7 46
                                                               G%..G..F ...+.;.
2380:
           25 01 8B 47
                       2E C7 46
                                                               .+.:N....4..F
        47
23Ç0:
        07 2B C8 89 4E 0A 8B C8
                                                               ...t.... N...@3...F
2300:
                                   4E 8A E3 48 33 FF FF 46
        12 00 01 74.1C F3 A4 8B
                                                               23E0:
                                  BC 8B 47 2E 89 47 30 EB
        04 8B 47 32 3B 46 96 72
                                  02 00 74 09 4E BG GD FF
23F0:
        B4 AC 3C ØA 75 ØF 80 7E
 2400:
                                   02 R2 E6 8B 4E 0A E3 0C
        46 00 FF 46 OA AA 88 46
                                                               + . . . 4; . . t . . . . W&.
 2418:
                                   74 C2 EB 89 8B 57 26 8B
                    34 3B 7F 2E
        2B FB 83 EF
                                                               G(.v... N..L...
 2420:
                                   4E 88 89 4C 82 83 D1 15
        47 28 8B 76 14 8B 9C 93
                                                                ...W&.G( ;G,r.u.;
 2430:
                                   3B 47 2C 72 1A 75 85 3B
        00 00 89 57 26 89 47 28
 2448:
                                                               W±v..₩*. G..I...u
                                   47 2C E8 49 FB 85 D2 75
        57 2A 76 13 89 57 2A 89
                                                                ..w..wo. .....U..
 2450:
                                   88 FC E9 89 FC 55 83 EC
        Ø3 8B 57 2E 89 57 3Ø E9
                                                                ...... u*.6$..k
 2460:
                                   75 2A FF 16 24 82 E8 .618
           8B EC 83 3E A8 03 00
                                                                ..... u.....
        Ø6
 2470:
                                     08 BB FF FF 83 C4 06
                                   75
        02 8B E5 85 CU A3 A8 03
                                                                1C A3 AA 03 89 1E AE 03
75 88 88 FP PP 83 C4 06
 2480:
        5D C3 A1 A8 03 8B F0 8B
 2490:
24A0:
                                                                ) .. F. @@H .......F
        89 1E AC 43 83 7E 8A 68
                                   D1 E8 3B HG AE 03 89 46
        5D C3 BB 46 BA 49 40 4B
                                                                24B0:
                                   96 5D C3 BB 46 62 29 86
        02 76 08 B8 FF FF 83 C4
 24CØ:
                                      5E 84 63 D8 8B 46 64
                                   89
        AE 03 8B 1E AA 03 DL EG
                                                                ......
 24 DØ:
                                   C3 55 8B EC A1 A8 83 8B
        89 1E AN 03 83 C4 (16 5D
                                                                24E0:
                                   AE 03 50 C3 55 83 BC 1A
        1E AC 03 A3 AA 03 89 1E
                                                                24 FØ:
                                   1C 30 FF 85 DB 89 46 GA
         8B EC 33 C8 8B 76 IE 8A
 2500:
                                                                u..... ]..F....
                                   5D C3 C7 46 84.00 00 8B
         75 08 B8 B0 03 83 C4 1A
                                                                F.=..}....B. .F.
 2510:
                                   FO C6 42 UC 28 FF 46 U4
         46 94 3D 9B 99 7D 9B 8B
                                   76 1E 8A 04 30 E4 85 C0
                                                                ...F.... v........
 2520:
         EB ED C7 46 94 99 00 8B
                                                                u.,....F
  2530:
                                   OB 7C 03 E9 C4 60 FF 46
         75 83 E9 CD 88 83 7E 84
                                                                2540:
                                   9C 23 01 30 FF 81 E3 02
         1E BA 04 30 E4 BB F6 BA
  2558:
                                                                          ....F.=.
                                                                ..P.t.-
                                   00 KB 03 8H 46 08 3D 2E
         00 89 46 08.74 05 2D 20
                                                                ..F.u..F
  2560:
                                   -94-85-C0-74-(15_31)_08_00
         00 89 46 08 75 1A 8B 46
                                                                          . F. . . . .
  2570:
                                   C3 C7 46 H4 H8 BO EB A7
         7E 07 33 CO 83 C4 1A 5D
```

2580:



```
1E 8A 64 36 E4 85 CØ 75
                                                              . .. uf.v ... 0...u
       83 7E 08 3A 75 46 8B 76
2598:
                                                              ..o. ..u ,.F.Ø.=h
                                 2C 8A 46 8C 38 E4 3D 41
       02 EB 6F 83 7E 64 61 75
25 A 0:
                                 88 7E 87 33 CH 83 C4 1A
       00 89 46 00 7C 85 30 5A
25BØ:
                                 LP 08 C7 46 04 00 00 89
                                                              ] . P. 8 . . . F. . . .
       5D C3 8A 4G BC 3H E4 25
25CQ:
                                                              F., b. 3.. ..] . . F..
                                 C4 1A 5D C3 8B 46 84 FF
       46 ØA E9 62.FF 33 CU 83
                                                             25D8:
                                 42 80 20 20 00 89 46 08
       46 04 BB PU BB 46 UH BB
25 E0:
                                 PO 8A 84 FA 03 30 E4 85
       7C 11 3D 60 00 7F 0C 8B
25FØ:
                                                              .u.3.... } .. F...
                                 5D C3 C7 46 08 80 80 E9
       CØ 75 Ø7 33 CØ 83 C4 1A
2600:
                                                              1..v.B. .F...F
                                 00 C7 46 H6 HU AH BB 46
       25 FF 8B 76 84 C6 42 8C
                                                              .=..)6.. ......
2619:
       06 3D 06 00 7D 36 D1 E0 D1 E0 8B F0 FP D4 E2 03
2620:
                                 ES 85 CR 75 1A 8B 46 06
                                                              .F.P.... ...u..F.
       8D 46 8C 50 EB E2 86 8H
                                                              2630:
                                 E4 03 BH H6 BB F7 EB 05
      'D1 E0 D1 E0 8B F0 8B 84
2640:
      BØ 03 83 C4 1A 5D C3 FF 46 06 EB C2 83 7E #8 3A
                                                             u.3....] ..v..B.
2650:
                                 C3 8B 76 84 C6 42 8C 28
      75 07 33 C0 83 C4 1A 5D
A1 5A 04 05 34 00 50 E8
266A:
                                 81 F1 8B E5 85 C9 89 46
2679:
                                                              .u.3.... ] ..F..v.
                                 5D C3 8B 46 8A 8B 76 18
         75 97 33 CO 83 C4 1A
                                                              ...F... F.=..)..
*.C... B....F..
       18
2680:
                                 46 04 3D 0B 00 7D 12 8B
       88 94 C7 46 94 99 99 8B
2690:
                                 42 0C 88 07 FF 46 64 EB
      5E 18 43 03 D8 8B F6 8A
E6 A1 5A 04 8B 76 18 89
                                                              ..z..v.. D.....l
26 NØ:
                                 44 2E 8B C6 83 C4 1A 5D
                                                              .u..... v...a.t.
                                . 76 06 8A 04 36 E4 25 80
       C3 55 83 EC 02 8B EC 8B
26C0:
                                                              .t....]. .Z..4.P.
                                 A1 5A 04 05 34 00 50 FF
       00 74 05 83 C4.02 5D C3
2600:
                                                              v..... ..).u...
                                 C4 02 5D C3 55 8B EC 8B
       76 06 E8 B6 F1 8B E5 83
26 EØ:
                                 72 18 38 1P 10 00 72 15
                                                              F....+. r.; ... r.
       46 84 8B 1E 8E 88 2B D8
26F0:
                                                              1E 10 00 28 DA D1 EB 93
       3B DC 73 11 A1 10 00 89
2700:
                                 C3 55 83 EC 64 8B EC 8B
       89 87 93 5D-C3 33 C8 5D
2710:
                                                              v...0..v ...6.;.u
.0...u.3 ....)..F
                                 08 8A 1C 30 FF 3B D8 75
       76 0A 8A 04 30 E4 8B 76
2720:
                                 CR 83 C4 64 5D C3 FF 46
       15 30 FF 85 DB 75 07 33
2730:
                                                              ....v ...8..v.
                                 ØA BA 64 36 E4 BB 76 Ø8
       08 FF 46 0A EB D9 8B 76
2740:
                                 83 C4 84 5D C3 88 88 88
                                                              ................
       8A 1C 30 FF 2B D8 8B C3
2750:
                                                              ...=<&u< &umodule
                                 26 75 6D 6F 64 75 6C 65
       99 99 91 3D-3C 26 75 3C
                                                               l....Th is is mo
2760:
                                 69 73 20 69 73 20 6D 6F
54 68 69 73 20 69 73 20
      20 31 0A 00 12 00 54 68 64 75 6C 65 20 32 0A 00
2770:
                                                             dule 2.. This is module 3 ...=<&u<
2780:
                                                    75.3C
                                 BY 88 81 3D 3C, 58
       6D 6F 64 75 6C 65 20 33
2790:
                                                              Sumodule 4..J.Th
                                    34 08 00 48 00 54 68
          75 6D 6F 64 75 6C 65
                                 20
27 NØ:
       26
                                                              is is mo dule 5..
                                    75 6C 65 20 35 8A 80.
          73 20 69 73 20 6D 6F
                                 64
       69
27BØ:
                                                              .....s .u..\.u.
                                 88 55 82 88 50 88 55 82
       03 08 A4 08 08 08 01 24
27CØ:
                                 00 00 00 00 00 00 00 00
                                                              ....W... .....
       08 00 01 40 77 00 84 04
2700:
                                 ON 80 00 00 00 00 00 00
                                                              ......
       09 00 00 00 00 00 00 00
27E0:
                                 00 00 86 66 66 66 66
                                                              ......
         88 80 88 88 88 88
       80
27F6:
                                 88 88 88 88 88 88 88 88
       88 08 88 68 68 88 88 88
2800:
                                                              ...... .....
                                 au an an an an an aa aa aa
       00 00 00 00 00 00 00 00
2816:
                                 80 88 00 88 00 80 00 00
       00 00 00 00 00 00 00
2820:
                                 00 00 00 00 61 00 72,00
       00 00 00 00 00 00 00 00
2830:
                                 65 6R 20 73 74 64 69 6R
                                                              Can't op en stdin
       43 61 6E 27 74 28 6F 78
2840:
                                                               file..C an't cre
                                 61 6E 27 74 20 63 72 65
       20 66 69 6C 65 8A UH 43
2850:
                                                              ate stdo ut file.
                                 75 74 20 66 69 6C 65 0A
                28 73 74 64 6F
       61 74 65
2860:
                                                                            (((
                                 20 20 20 20 20 28 28 28
       00 00 00 20 20 20 20 20 20
2876:
                                 20 20 20 20 20 20 20 20 20
       28 29 20 20 20 20 20 20 20
2880:
                                 10 10 10 10 10 10 10 10
                                                                 11....
       20 20 20 48 10 10 10 10
2890:
                                 84 84 84 84 84 10 10
                                                       10
          10 10 84 84 84 84 84
       10
28 A Ø:
                                 81 81 01 01 01 01 01 01
               10 81 81 81 81
             10
       10
28B#:
                                 01 01 01 01 01 01 10
                                                       16
       01 01 01 01 01 01 01
28C0:
                                                              ......
                                 82 82 02 02 02 02 02 02
       10 10 00 10 82 82 82 82
28D0:
                                 82 82 82 U2 U2 82 19 16
       02 82 82 82 82 82 82 82 82
28 EØ:
                                                                            1111
                                 20 20 20 20 28 28 28 28
       10 10 20 20 20 20 20 20
```

28FØ:



-5	6-

																	,
2900:	28	26	26	20	20	20	20	20	20					20		28 10	11
2910:	28	28	20	48	10	10	10	111	10	10	10	• • •	• •	10	•	10	•
2920:		10	10	84	84	84	84	84	84	84	84	84	84	10	10	93	
2938:	10	10	10	10	81	83	нı	81	81	87	(1)	81	u l	0 l	01	10	
2940:	GL	(9.1	(1.1)	G 1.	H I	Ø 1	u l	41	H J	H I	01	UL	01,		10	02	
2950:	16	10	OB	10	82	82	82	82	82		02	62		0.5	14	10	• • • • • • • • • • • • • • • •
2960:	U2	U 2	Ø2	02	02	02	u2	02	02	#2	02	02		#2	110	00	
2978:	10	10	20	ØØ	ØØ	88	Ø (I	99	Ø0	84	90	AG.		00 00	ØØ	00	
2980:	GII	ØØ	99	43	បម	(I)	00	00	90	(3 (5	BB	ดผ	814	•	00	00	
2990:	39	88	00	00	00	33	00	88	98	Ø0	80			99		88	
29 8 8 :	99	90	Øß	ØØ.	ØØ	98	Вß	84	ØØ	88	80		UU	00	00	90	
29B0:	00	90	88	UØ	ØØ	00	() Ø	80	ВH	00	88	UØ	•	90	មិម		
29CØ:	00	00	60	00	00	88	00	00	Ø	90	OO	80		98	99	88	
29DØ:	99	00	gg	00	OØ	00	00	00	80	30	ВØ	ØØ	BB .		Øß	00	
29E0:	99	00	00	00	ØØ	00	00	00	98	88	ag	ß	00	60	00	90	01 23456789
29E0:	99	88	88	88	39	00	30	31	32	33	34	35	36	37	38	39	
2AØØ:	41	42	43	44	45	46	00	99	ØĠ	GG	99	au	Ou	00	80	80	ARCDEF
2A00:	00	99	00	aa	-	00	00	88	00	98	ØH	00	QQ.	00	00	99	
2A10:	99		-00	88	00	88	00	00	00	00	ព្	00	00	98		98	******
2A20:	88	99	øø	88	00	80	00	88	00	00	00	00	លឲ		00	00	
2A36:	88	99	øø	30	00	88	00	00	UØ	99	80	ии	88	00	88	00	
2A40:	88	88	ØØ	00	88	99	00	00	00	ИЦ	W W	HO	W Ø	40	00	88	• • • • • • • • • • • • • • • • • • • •
	88	ØØ	98	00	00	00	88	99	00	ØØ	00	90	OB	Ø Ø	ØØ	03	
2860:	38	99	88	98	98	99	00	98	00	80	90	00	aя	69	00	00	
2A70:	Ø8	99	93	98	ØØ	80	00	00	39	00	88	OU	ពថ	ØØ	60	Ø Ø	
2A80:		98	88	98	88	00	00	88	80	00	00	ß 🛭	88	80	90	.00	
2A90:	. 00		88	88	88	99	93	80	80		ΩØ	80	94	60	ØØ	GO.	
2AA0:	99		00	99	99	Ø8	88	80.	00		ØØ	UØ	00	១០	00	Ø Ø	*******
2 A B Ø :	00		00	39	98	96	33	Ø Ø	00		93	40	90	20	60	99	
2AC8:	90			99	60	93	93	88	99		ØØ	gø	03	00	68	00	
2ADØ:	99		89		00	00	88	88	00		00	(10	33	99	00	00	
2AE0:	00			99		Ø0	33	88	00		00	33	60	00	ß Ø	80	
2AFG:	88			88	00				64			00	82	00	05	00	
2B00:	80			87	96		00		4.3				41	55	58	38	
2810:	05			_					31			-		. 00	4 E	5.5	COML.LPT 1.PRN.NU
2B20:	43	-		-31			-		61								L.,
2B30:	4 C	_	_						03			_		01	Øl	Øl	
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2B50:	01								ខ ា				Øl			Βl	
2B60:	01								Ø 1							G1	
2B70:	91				Øl												
2B80:	01								01			01					
2890:		Ø1		ØL			. 61		Ø1								
2BA0:	01								30			-			_		
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28F0:	86	9 66	9 00	00	80	90	86	00	O	, 131	, 01			***			
2000:	•								3								•



-57-

Dump of MAIN2E.EXE/II

	0:	4D	5 A	BØ	aı	16	-04	04	σσ	20	00	LG	941	F.F.				MZ
	18:	99	UL	FV.		95	uu	60	pu	10	HU	() ()	UU	4 N	019	55	02	O.D.T.UJ.U.
	20:	4 F	80	55	62	54	98	55	02	97	B D	66	H (1	uu	80	U(I	00	
	30:	00	99.	-	พด	88	66	80	Bu	នួន	UU		() ()	86	88	UH	00 00	
	40:	99	00	80	99	00	60	33	UB	O O	90	• • • • • • • • • • • • • • • • • • • •	00	OU	99	99	00	
	50:	99	88	93	UU	00	(I (J	00	40	(10	44	913	00	BU	00	HH	gu gu	
	60:	00	00	00	00.		UØ	u o	00	UU	911	N CI	88	00	ម្រ	U ()	00	
	70:	00	00	Ø0	ØØ	UU	HG	ផ្ល	ga	60	HØ	00	04	00	មក មស	(10	99	
	80:	00	ØB	88	ИØ	UØ	U Ø	បព	99	an	(10	-	00	OU.	69	60	00	
	90:	00	00	99	ØØ	H O	00	94	u	(10	00		00	00	00	00	99	
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	EØ:	00	80	00	90	00	00	លខ	99	OO.	Ø ()	90	911	90	80			
	FØ:	98	99	ØU	00	UA	93	00	90	ØØ	ØO	UU		OG	GØ	ρø	88	******
	100:	99	00	Øß	00	UU	UØ	94	ØG	00	00	44	GG	88	0.0	99	00	••••
	110:	00	UG	99	00	ØÜ	ØU	BH	00	Ø	00	011	BH	86	UO		80	*****
	120:	00	99	00	ØØ	00	00	ØØ	00	88	00	80		00	00	00	Ø Ø	
	130:	98	80	38	93	00	ØØ	on	00	ØØ	Ø0	00	9(1	30	០០		99	
	140:	88	44		40	13 C	83	OB	Ø	00	84	94	(3 (3	00	66	88	00	• • • • • • • • • • • • • •
	150:	98	80	OO	88	00	00	ВB	ØØ	88		00	au	96	00	00 00	99	
	160:	30	ØØ	90	30	UB	00	O O	Øß	90	93	90	ØØ	00	อด		99	
	170:	ØØ	80	30	Üß	ЫQ	00	0.0	99	Øß	00	UO	00	99		0.6	-	
	180:	00	90	00	33	00	00	88	00	0 B	80	00	60	00	88		93	
	190:	88	ØØ	00	Ø B	øø	90	HB	ВB		00	98	66	00			00.	
	lÀG:	93	00	ØØ	øø	00	ao	(10	ßÜ	Ø (3	ao	BB	00	98	0.0		80	
	180:	00	00	ØØ	00	00	99	ЯØ	00-	33	u u	99	88				00	
	1.C8:	98	00	90	00	B B	ߨ	au	BB -	00	00	00	00	88	OO	99	88	
	100:	00	00	00	00	00	00	00	Ø G	ØØ	ЯÜ	AU	88	83	BB	00	90	
	1E0:	00	00	99	00	Øß	00	ØЙ	00	00		.013	88	98	60	0.0	86	•••••
	1F6:	-00	00	00	ØØ	Øß	00	aa	96	Øß	00	00	00	90	0.8		8.0	y
	200:	55	813	EC	FF	36	20	00	E8 -	18	Øl				C3 8B			".P
	210:	EC	88	22	00.	58	E8	ВD	01	813		-50			E8			4 P J.U
	220:	34	00	50		FF		8 B	E.5	50		55	FF	FC 5D	C3	BØ.		:
	230:	E8	-	. 00		D8			DR	98	58		#3		40	-	B8	.LL.<. u(e
	248:	E8		09	E.8	-	88		EV	75	28 90		48	#3	88		46	: 5IIF
	250:	DI		E8	. 3v		BA		E8	35 8 A		43	£8	86		4 A	75	73CJu
	260:	99		` 37	83	C3				91		13	90	51	в9		00	
	270:	FØ	C3	_	4C					E8	87		۸۸			C3	E6	5Y
	280:		۸C		AR	_		_			- 8 E			DB	26		11:	
	290:	7B	C3		7B				-FØ	75			44	p3	E.3	EB	03	
	2 A Ø :	02		_		F7			16		. 80		60	04	٨3	5A	ØG	xz.
	2B8:	BB	FØ		8 B					99		BA	ac	46	32		8 B	
	2C8:	96	33	CØ	50		EC			23			FC.	C6	05		47	+eG
	2D0:	D9	83		04	81			BA.	04	88		46	47	F. 2	_	33	
	2 E 0 :	E3	ØD		05 8C	2Ø D8		- :	BB.	. C4		EB	37	01			CB	
	2FØ:	CØ	88		2D	94	99					813	P.C	n8	5¢	99		
	300:	Al	58		8B					8B	EC	FF	36	80		F.8].U6
	310:	E8		99	-			81		Ø.E	01	813	EC	8D	86	14,	. 61	1.0
	320:	00	ಶಟ	E5	שכ	C.	د د	O L								•		



330:	89	46	ac	ЯR	136	12	σı	8A	84	30	E4	85	CØ	75	83	E9		.FØu
340:	EC				89		00			84	30	E4	30		вø			a.=
350:					12			63		Δ7		ВЛ		30	E.4	30		Ft
360:					FF							E4		1F	2C	61		3.u4
370:					46						711		813	.16	21	Ø L		KF ,.x64.
380:	FF				88		30		-	A9		2A			E.E.			*
390:	86				88				BD	46	ØB	56	80	46	ØC	.50	•"	F.P.F.P
3A0:					EF								E5		CØ	89		.F.P
3B0:	46				E9								89					P.u. F
3C0:					46		7C						1 E					.F.;F. hK
3DØ:					2C				. 88	18	24	G)	FF	66	2A	øı		
3EØ:					BE		ø7	30	E4				76				•	BØvB
3E0:					2 A			50	EB			.8B			46			.G*.SPF.
400:										2C			12					,.H,.x6*
410:					01 01				88		30		E9					*.FG
								EE		88			U5					*.P.v
420:					76								10				•	
430:					55			8C					90					.0 t.
440:					A8					E4			82					
450:					C7								17					F
460:				81			10	-		10			36					v
470:					02								E9					0.8u
480:					01										81			F0
490:					88					10								
4 NØ :					A3					FF			C7					
4 BØ :					8A							46			29			vaF.t) @
4 CB:					B2					08	-	-	18					
4 DØ:					ŒΕ					EQ.			10					=} <u>.</u> .F
4 EØ:					46		EB	C9		-			84					£v
4 EG :	E9	AC.	Ø Ø	8B.	76	10	46	8 A	Ø 4	30	E4		3 E					,v.F0.=>v
500:	10	75	G9	B8	EC.	00	FF	46	10	A3	ង 6		C7		04			.uEE
510:					8 A			E4	. 85	CØ	89				29			vgE.t)@
520:	88	FØ	8 A	84	B2	3 1	30	E4					113					\$u
530:	3D	10	Øß	7D	ØΕ	FF	46	34		PØ	813					88		=} <u>.</u> .F
540:	84	99	00	FF	46	10	EB	C9		76		CG			80			Pv
550:	EB	4D	Al	82	ØØ	FF	ø6	82	-		Εū	813			16			.M
56Ø:					8 B				Ø4	30		85			46			vF.
570:	74				F8					30		25			75			t-00.1u.
580:	FF				DF		3 K			03		66			3C			.F=>. uf.=<.
59 0:					FF		3D			Ø3			FE					u=. u
SAØ:	76				30					Сб			85					v
500:	94				76						40	RB			85			.t*.v 0.0
5C0:	61	39			G B		74		FF			ЕB			76			All.t. Fv.
5 DØ :	A8	64	30	E4	85	CØ	74	03	E9	7 F	PE	EB	ag		EE			at
5E0:	56	B8	88	00	50	E8.	BE	00	8 B	E5	FF	36	86		BB			PP6
5F0:	66	53	89	46	06	E8	λE	aa	813	E5	BB	EC	(1 (1		BB			.s.fs
600:	ថថ	53	89	46	08	E8	9 E	ØØ	88	E5	85	CO	89	46	ūΛ	75		.S.F F.u
610:	Ø9	B8	81	00	50	E8	DD	ØB		£5			06					P
620:	FF	76	0 A	B8	FØ		50					E5			00			.v <u>P</u> . HP
630:	E8				E5		7 E		: 00						118			uv
640:	01								01						813			.PP.P
650:	AΘ				E4				. OR							30		guvn.g
660:	E4	gD.	Ø 4	00	88	44	86	VQ	99	aA	30	E4	85	CO	75	4 E		D
670:									_00-	_0.4_	_0.5_	_88_	44_	_0.6_	_8.B.	_7.6_		.vD.9Dv
680:	ØΛ	8 V	44	06	30	F.4	ΒD	04	Øß	88	44	86	1313	۸C	a a	50		D.0P
690:	FF	36	82	00	E8	93	FB	8B	£5	33	Cß	50	F:8	1F	BC	813		.63.P



```
F......; .s..G.0
                                EC 06 BB EC BB 22 01 89
      E5 B3 C4 UC 5D C3 55 B3
6AG:
                                3B DB 73 ØF 8A 47 06 30
      46 U2 BB A2 H1 BB 5E 02
                                98 EB E7 BB 46 92 3D A2
5D C3 FF 76 92 FF 76 9C
6B0:
      E4 85 CB 74 B6 83 46 B2
600:
                                                              .u.3.... }..v..v.
      01 75 67 33 CO 83 C4 86
                                                              6DØ:
                                 83 C4 H6 5D C1 55 H3 EC
      FF 76 UA R8 87 00 88 R5
                                                             ....v..D ...t.A.%
                                 86 84 CB 74 1F 38 E4 25
6E0:
      ØA BB EC BB 76 12 8A 44
                                                             ..t.v... P.....v
6F8:
                                '50 RB OB 02 BB E5 BB 76
      82 88 74 8A 56 BB FF FF
                                                             ..D.Ø.P. I....v..
788:
                                49 16 88 E5 88 76 16 8A
      12 8A 44 07 30 R4 50 E8
710:
                                40 50 FF 76 OR E8 D4 BB
      04 30 E4 EB 74 AT 7E 63
                                                             ...F.Qu. .....P.
720:
                                AL 7E 83 85 A4 81 58 FP
      BB ES 89 46 86 48 75 12
                                                             v..... F....P3.
730:
                                 46 86 BB 82 88 50 13 CB
      76 UE E8 B9 UC 8B E5 89
50 33 DB 53 FF 76 U6 E8
                                                             P3.S.v.. .....P...
740:
                                DE BE BB E5 C7 46 B4 02
                                                             76 OF EB 97 MB HB E5 C7
750:
      OU ER 47 FF 36 7E 03 FF
                                 31 AL 7E A3 H5 A4 HL 5U
760:
                                                             .v..x....F....F.
      46 04 01 00 89 46 06 EB
                                C7 46 84 82 88 89 46 86
C3 3C 77 74 DC 3C 72 74
774:
      FF 76 OR EN 78 OC NN E5
780:
      EB 18 33 CU B3 C4 UA 5D
                                                             .<au..). ..."..u.
                                 EB E8 83 7E 06 FF 75 97
790:
      C2 3C 61 75 63 E9 7D PF
                                                             3....].. v..D....
7 NØ:
                                76 12 8B 44 64 85 C0 B9
      33 CO 83 C4 OA 5D C3 8B
                                                             F.u....P .".....
780:
                                 ER 22 10 8H R5 85 CØ 89
      46 00 75 LE BH 00 02 50
7C8:
                                 89 0F 8B E5 33 C0 83 C4
                                                             P.u..v..
      46 08 75 OF FF 76 06 E8
                                                             .]..v... Ø...u..N
700:
                                 30 E4 85 CH 75 05 81 4E
      ØA 5D C3 8B 76 GE 8A 04
7EØ:
                                                             ....F..v ..D..F..
                                 12 80 44 07 HB 46 OR 89
      94 94 60 8B.46 86 8B 76
                                                              ..D..F.. D.%..t..
7F0:
                                 44 06 25 05 UP 74 07 C7
      04 89 44 04 80 46 64 88
                                                             D.....v ..D....F
800:
                                 12 C7 44 02 0H 62 8B 46
      44 02 00 00 EB 08 BB 76
                                                             D.Ø. ... . V...
810:
                                 EC 84 8B EC 8B 76 08 8A
      12 83 C4 8A 5D C3 55 83
820:
                                ØA 56 H8 FF FF 50 E8 D6
      44 06 30 E4 25 02 00 74
                                                             .....p. v..t..=.
830:
                                          74 64 E8 3D 10
                                 76 08 FF
      00 8B E5 B8 00 62 50 8B
                                                              ...v..D. ...D...D
840:
                                 88 8H C6 44 86 80 8A 44
      8B E5 8B 76 ØR C7 44 Ø4
                                                             9.P....).U.
850:
                                 ES 83 C4 84 5D C3 55 83
      07 30 E4 50 E8 FC 6E 8B
860:
                                 44 06 30 E4 A9 01 00 89
      EC 04 8B EC 8B 76 08 8A
870:
                                                             F. t. $0. t ......
                                 08 B8 FF FF 83 C4 04 5D
      46 00 74 05 25 30 00 74
880:
                                                             ..v..D.. ..D.0...
                                84 8A 44 87
                                             30 E4 BB 00
      C3 8B 76 Ø8 8B 44 Ø4 89
899:
                                8B E5 8B 76 08 89 44 82
                                                              .s.4P.6. ... v..D.
      02 53 FF 34 50 E8 36 0C
                                                              ..u..D.Ø ....D.
8A0:
                                 E4 0D 10 00 88 44 06 B8
      85 CØ 75 13 8A 44 Ø6 3Ø
880:
                                                              ....].. v..|..u.
                                 76 68 83 7C 92 FF 75 18
      FF FF 83 C4 Ø4 5D C3 8B
                                                              .D.Ø.....D..D....
8CØ:
                                 88 44 06 C7 44 92 -00 00
      8A 44 06 30 E4 0D 20 00
: 008
                                 8B 76 88 8B 44 92 48 89
      BB FF FF 83 C4 04 5D C3
8EØ:
                                                             FF 64 8B F8 8A 1D 38 FF
      44 02 85 C0 78 10 8B 04
                                                             ....v ..b....
8F0:
                                 08 E8 62 FF 8B E5 8B D8
      81 E3 FF 00 EB 0A FF 76
                                                              .D.g. .F.t.10
900:
                                 83 EC GA 8B EC 8B 76 10
      88 C3 83 C4 Ø4 5D C3 55
918:
                                 89 46 00 74 05 25 30 00
5D C3 8B 76 10 8B 04 2B
      8A 44 06 30 E4 A9 02 00
                                                             D.\.G....F...
920:
      74 08 88 FF FF 83 C4 0A
44 04 8A 5C 06 30 FF 81
                                                             D. \.0. ...F.F.

.t\=.tW ...tQ...

.us.v

.D.a.. .Cs.t.P.
930:
                                             46 08 89 46
74 51 8B 94
                                 E3 04 09 89
948:
                                 83 7E ØE FF
      Ø6 74 5C 3D ØØ Ø2 74 57
950:
                                 1C 83 FB NA 75 24 8B
      FF 04 8B 5E 0E 8B FØ 88
960:
                                             74 84 58 89
                                 86 43 53 FF
      10 8A 44 07.30 E4 8B 5E
970:
                                                               76 18 8B 5C 84 89 1C 89
      5E 06 E8 05 0C 8B E5 8B
980:
                                                              F..v..D. ...F.;F.
                                 00 00 8B 46 98 3B 46 06
      46 08 8B 76 10 C7 44 02
990:
                                                              u...P.... ) ...F....
                                 5D C3 C7 46 06'00 00 83
      75 08 8B 46 0E 83 C4 UA
9 A 6 :
                                                              ..tg.v. .D.0..v.
                                 8A 44 07 30 E4 FF 76 06
               74 39 8B 76 10
      7E 06 00
9BØ:
                                                              .t.P.... ..v..\..
                                          10 8B 5C 84 89
                                 E5 8B 76
         74 04 50 E8 C3 08 8B
      FF
9C0:
                                                              ..\.0... ...F.t..
                                 04 00 89 46 08 74 67 C7
      1C 8A 5C 06 30 FF 81 R3
                                                              D.....v ..D....
900:
                                10 C7 44 02 00 62 83 7E
      44 02 00 00 EB 08 8B 76
                                                              ..u..v.. D.9.. ..
9E0:
                                44 86
                                       30 E4 BD 20 00 88
      08 FF 75 10 8B 76 10 8A
9F0:
                                                              D....F.; F.)..v..
                                 46 06 7D OF 8B 76 10 8A
      44 06 EB 16 8B 46 08 3B
A00:
```



								-0	U –										
A10:	4.4	a s	30	F.4	· øb	10	00	88	44	á6	88	46	ØE	30	FP	FP		D.9 DP.=	
A20:					10				4 B	89	5C	02	ลร	DB	78	Ø٨		t%.v\. K.\x.	
A30:					88										76			gvv.	
Λ40:	ES	04	FE	8 B	E5	EB	as	C7	46	0E	90	ดด	813	76	10	BA	•	v	
λ50:					25										Øλ			D.A.&A.t]	
λ50:					ลิว										EC		٠,	F) .U63	
λ7 0:					FF										HΛ			Fv:	
A80:					21)				89	46	16	89	46	0E	89	46		0FFFF	
190:					31			46	3λ	89	46	0C	88	76	3λ	81		.uF :.FV:.	
λλ0:					46				FØ	8A	84	n2	91	30	E4	25		.aF.e	
ABO:					83							46			H H			tj u P	
ACR:					3 A				P.4	25	βP	HO			16			v:.P:Ø .%F	
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DRØ:
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E40:
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ESG:
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18AG:	63	813	46	14	813	25.	00	45	G A	63	73	813	5 R	OE.	01	1.E		
18BØ:	5E	UE	Dl	E 3	1) 1	6.3	40	40		uc	89	4 K	(12	89	5E	06		FN
18C0:	87.	8 5	BB	80	01	75	413	50	0.1	40	RD	FU	813	5C	02	DL		.ru
18D0:	811	40	02	85	CD	75	76	00	0.0	46	94	76	18	A B	C6	8 B		vP.v
18E0:			E3						44	40	Dir	C6	011	76	as	RG		vF Dv
1820:	76	AG	89	04	RIB	40	50	07	94	46	82	313	46	áC	75	20		.3]F.;F.u
1900:	94	33	CØ	83		70	. 217	60	913	20	46	ÜE	43	44	a 2	89		FD
1910:	88	F.O	813	10	011	.76	n c	00	a A	33	Ca	83	C4	10	5.0	C3		Ev31.
1920:			88						011	46	45	29	96	82	43	·R8		.F.; F.sF.)
1930:			GA									46] F.;P.uF.
1940:			83						46	EN	. 713	38	00	75	ar			vt^.; .v
1950:			88															F.)F
1960:			29					6E	E.F.	8 5	0.4	10	טכ	C2	60	90		.vDt
1970:			76						84	85	CA	74	TI	00	35	00		;.uG D3.
1980:			75						44	02	811	87	82	00	33	00]F^
1990:			10									88						FN
19A0:	46	86	89						E9	25	PF	88	46	MA	813	/ 6	-	3FD
1980:		89				8B			ıc	8 H	46	Ø E	89	9.4	0.2	00	٠.]
19C0:			C4						EC	#2	88	F.C	V.	84	כמ	00		
1900:			83						89	18	82	03	/4	50	60	56		G).U
19E0:			00						47.	02	83	C4	02	20	63	22		
19F0:			98						93	88	0.0	C7	96	86	83	טט		
1 \ 0 0 :			46						.06	ER	53	ØA	. 88	ED	1217	r r		FvS
laiø:	FF	3B	C3	В9	46	04	75	07	813	C3	83	C4	80	50	C3	813		
1λ20:	46	94	C7	96	86	63	4 3	ØØ	V3	84	03	FF	.76	86	E8	2 E		F
1A3Ø:	σA	8B	E5	BB	PF	·FF	313	C3				06						;. t
1A46:	EA	E8	82	FF	· 33	CØ	83	C4	. 88		C3				82		:	3
1A50:	EC	Al	82	Ø3	DΙ	EØ	83	C4	02	50	C3	55	03	EC	04	813		1.0
1 A 6 G :			4 E						33	C@	33	DB	E9	'8E	99	89		Nu. 3.3
1A7Ø:	46	02	BB	C3	75	87	33	C9				81					•	Fu.3. 3N.
1 8 8 0 :			02									۲7						.FY
1A98:			89						C9		97				DΛ			3v.3y
laaø:			75									D)						.; .r.+.C Ou.3
lab0:			F2							75					D6			
lace:			10							D6					75			1
ladø:	3B	C2	72	Ø5	2B	C2	18	Fl		4 2	75	EB	BB	CE	. 80	. מים	٠,	;.r.+ COu 3Ft
lae0:			F7						67	. F7	DØ	£7	DB	TO	L.E.	E.E.	ı,	.Ft
1 A P G :			02				07		Dl	F7	DA	83	109	r E	20	56		.)e.3v
1B00:			C3						88	5 E	. W4	กก	9 12	P.O	20	20		
1810:			7 E							. Dl	DI.	D3	DT	שע	30	. VIA		.rGN uN.
1B20:			04						. 75	EA	. 89	5 E	04	89	4 E	86		
1.B.3 a +	-89	-56	88	_89	_7.E	_6A	_C3	8B	46	_01	_D1	_E@	89	46	IJΑ	_88		.v f F



```
-65-
                                                               F....F.. F....P...
                                  46 96 D1 D8 89 46 66 8B
       46 08 D1 D0 89 46 08 8B
1B40:
                                  8B D8 33 C9 D1 E0 D1 D1
                                                               F....F., ..3....
       46 04 D1 D0 89 46 64 C3
1850:
                                  00 D1 E0 D1 D1 C3 33 C9
       D1 E0 D1 D1 03 C3 83 D1
1860:
                                                               04 E8 DC FF 88 58 64 03
       BE 06 00 8B 43 04 89 4B
                                                              ....C.O OY...F..
1870:
                                  4F 79 KH C3 8B 46 84 8B
       C3 83 D1 00 89 43 04 4F
1B86:
                                  DI ES DI DE DI D9 DI DA
       5E 06 8B 4E 08 8B 56 0A
1890:
                                  86 89 4E 88 89 56 8A C3
       4E 75 F5 89 46 04 89 5E
1BA0:
                                  99. 88 89 C7 46 8C 88 88
                                                               U.. (...F ....F...
       55 83 EC 28 8B EC C7 46
1BBØ:
                                                               .v,.D... y..N...1
                                  79 05 81 48 00 00 80 25
       8B 76 2C 8B 44 66 85 C0
1BC0:
                                  04 75 09 8B 7C 82 75 04
       FF 7F 75 10 8B F8 0B 7C
1BD0:
                                  2D FR 03 89 46 ØE 8B ØC
                                                               0B 3C 74 7C B1 04 D3 E8
1BEG:
                                  06 33 D2 BF 05 00 D1 EE
       8B 5C 02 8B 44 04 8B 74
IBFØ:
                                                               ..... Ou....F
                                  4F 75 F3 0D 00 80 89 46
       DI D8 D1 DB D1 D9 D1 DA
1CØB:
                                                               56 MA C7 46 MC MA MO 8B
       04 89 5E 66 89 4E 68 89
1010:
                                  79 10 83 C6 63 78 13 BE
       76 0E 8B CE 85 F6 74 69
1C20:
                                  EB ES RA C6 FE FF 46 UC
                                                               ...W..E......P.
       01 00 E8 57 EF PF 46 OR
1C30:
                                                               .....v. .A.. ..N
                                  E8 41 PF ER 20 FF FF 4E
       EB 88 BE 84 88 81 76 8E
1C49:
                                 FF 4E GE EB D9 FE EB F1
                                                               ..... N...
       ØC F7 46 84 88 88 75 C7
1C50:
                                                              3..N..@3 ..P..@u!
.F..P.u. .F..F.t.
                                 C9 F7 46 UB HB 48 75 21
       33 P6 81 4E 00 00 40 33
1060:
                                  BB 46 00 0B 46 0A 74 11
       8B 46 84 OB 46 86 75 88
1C70:
                                                              FE 01 75 05 PF 4E 0C ED
       E8 EB FE 85 C9 75 BA 83
1C80:
                                  83 PR 14 7C CA C7 46 10
       EF 80 C1 30 88 4A 14 46
1090:
                                 85 20 74 00 09 01 00 80
       01 98 8H 46 38 8H 76 2E
lCA0:
                                                              14 88 81 FR 12 7D 25 8B
       46 0C 48 03 FU 78 2D 89
1CB0:
                                 7C 1A C6 42 15 30 FE 42 46 0C FF 4E 10 B3 7E 30
       CE 8A 42 15 84 85 10 3A
1CCB:
                                                               1.4 8A 42 14 4E 79 EF FF
lcog:
                                 76 10 33 DB 8A 42 14 88
83 FR 14 7C MF BG 36 88
       00 74 81 41 88 78 16 88
                                                               .cc; .).P ...|..0.
ices:
       05 43 47 3B D9 7D 11 46
1CFØ:
                                                               .GC; .|. 3..F...t
.P..Qu. H.v4...F
                                  33 CH F7 46 GH HH HA 74
       05 47 43 38 SE 2E 70 F7
ingg:
                                  48 88 76 34 89 04 88 46
       08 87 46 00 00 40 75 01
                                                               ..v2...F ..At.1..
into:
                                  00 00 40 74 62 33 69 88
       OC BB 76 12 89 04 P7 46
1020:
                                  2C 00 74 09 0B 46 2C C7
       C) H3 C4 28 5D C3 H1 7E
1030:
                                                               F. ... VØ .F. .N.u.
                                  89 46 12 FF 4E 2E 75 86
       46 2C 00 00 C1 FF 56 30
1D4#:
                                  08 08 08 74 03 88 FF FF
                                                               .N.....F. ...t....
       81 4E 00 00 HB C3 F7 46
1050:
                                  CO 89 46 00 89 46 HC 89
                                                               .U..(..3 ..F..F..
       C3 55 83 EC 28 88 EC 33
1D60:
                                                              F.F.F. F.F.F.

<0u N. . <

-u N. . <0|8<

9.4 N. . F.F.)F
                                  89 46 86 89 46 88 89 46
       46 02 89 46 08 89 46 64
1070:
                                 81 4E 88 80 20 EB F2 3C
E8 98 FF 3C 10 7C 18 3C
       OA RB B2 FF 3C 30 75 07
1080:
       20 75 08 81 48 00 00 86
1000:
                                  89 46 10 88 46 82 29 46
       39 7F 34 81 4E 00 00 20
LDAU:
                                                               .,F...t. .F....
                                  FF 46 BC KB OB RR AE FD
       8C F7 46 84 88 F8 74 85
10116:
                                                               .F.3...P ..V...V.
       8B 46 10 25 UF 00 01 46
                                  UA 83 56 08 UU 81 56 06
                                                               ..v...< .u..F...
LDCU:
                                  28.75 BC 8B 46 82 85 CB
       00 83 56 84 88 KB C1 3C
lpng:
                                                               un.F...< Et.<eu5.
                                  45 74 04 10 65 75 15 E8
       75 42 FF 46 02 EB B1 3C
IDEU:
                                  75 00 81 4E 00 00 10 EB
                                                               n.<+t.<- u..N....
       44 FF 3C 2D 74 09 3C 2D
ined:
                                                               4.<0|.<9 ..$..F..
                                  7F 1A 24 HF 89 46 16 8B
       34 FF 3C 30 7C LE 3C 39
LEUØ:
                                                               F. C. F. F. = . . r .
                                  89 46 OK 3D FP OF 72 DE
       46 BE E8 43 FD 63 46 16
1 E 1 0 :
                                                                        u.3..v2
                                                               ....F..
                                  20 75 OF 33 CO 8B 76 32
       D1 E8 EB P4 F7 46 00 08
1 E2 8:
                                                               ...F...( )..F..F.
                                  50 C3 8B 46 ØE F7 46 00
       89 84 8B 46 12 83 C4 2B
1E30:
                                                               ..t...F ..P..F..
                                  HC 813 46 114 HIL 46 06 011
       00 10 74 02 F7 D8 01 46
1 E4 0:
                                                               F..F.u.. ...F.>..
       46 08 6B 46 0A 75 03 E9
46 04 00 80 75 00 EB CE
0C 85 C0 74 1B 78 11 BB
                                  00 00 C7 46 OR 3E 04 F7
1E50:
                                 FC PF 4E UK KB P1 8B 46
84 UH B1 76 BE E8 8C FD
```

E8 78 FC FF 46 0C EB CF

FF 07 7F 37 BL 04 D3 E0

06 8B 4E 8B 8B 56 8A 8A

Figure 7

1 E60:

1E70:

1 E80:

LEAG:

ES EB FC FF 4E OC EB D7.

BB 46 0E 85 CF 78 41 3D

89 46 0E 8B 46 04 8B 5E



....t.x.. ...v....

....N... .x..F...

.F...xA= ...7.... .F..F..^ .N..V..

```
DF 8A F8 8A C4 BF 63 98
       D6 8A F1 8A CD 8A EB 8A
1 EBØ:
                                                                           Ou.1 ... F
                                   42 75 ES 25 BF 88 8B 46.
       DI ER DI DR DI D9 DI DA
1ECØ:
                                    33 CØ 33 DB 33 C9 33 D2
                                                                           3.3.3.3.
       GE EB GD BB FG 7F BB G2
8B 76 34 F7 46 GG 96 80
                                   74 H3 HD OU BU 89 44 U6
LEEG:
                                   BB B1 GB BB 76 32 89 64
       89 5C 04 89 4C 02 89 14
lepø:
                                    55 83 EC 82 88 EC C6 46
       8B 46 12 83 C4 28 5D C3
1F00:
                                    ER 8A 55 83 EC 82 8B EC
       01 16 8B 46 0A 89 46 08
1F10:
                                                                  .P...v..
                                   C4 05 88 E5 85 C0 75 04
           46 01 0P FF 76 06 E8
1F20:
       Cf
                                   Ø8 8A Ø7 A8 8Ø 75 16 8B
       F7 D8 EB 25 8B D8 8B 7E
1F30:
                                                                  ..f..l.. t.S.e..
                                   74 0B 53 E8 65 07 8B ES
       D3 8A 66 Ø1 CD 21 84 CØ
1F40:
                                   CØ 83 C4 02 5D C3 55 8B
                                                                  .....3 ....J.U.
          PF FF EB 04 89 1D 33
1F50:
       BB
                                    ES 85 C8 75 84 F7 D8 5D
                                                                  EC FF 76 04 E8 87 05 8B
1F60:
                                                                     ....u ...
                                    1B 8B D3 B4 13 CD 21 84
       C3 8B D8 8A 07 A8 80 75
1270:
                                    ES 88 FF FF 5D C3 53 E8
                                                                  .t.s.,.. ....].s.
          74 ØB 53 E8 2C Ø7 8B
       ÇØ
1F80:
                                                                  1...3.]. QV....w.
                                   51 56 B9 67 06 8B 77 2E
       21 87 88 E5 33 C8 5D C3
1F90:
                                                                  ....t.A. ...t.A..
                                    FE 00 01 74 08 41 81 FE
       81 FE 80 00 74 0F 41 81
1FAG:
                                   D1 E8 D1 DA E2 FA 8B C2
07 00 8B 77 2E 81 FE 80
                                                                  00 02 74 01 41 4E 23 F2
       8B D6 5E 59 C3 51 56 B9
1FC0:
                                                                  .t.A.... t.A....t
                                   74 68 41 81 FR 66 62 74

R2 PK 92 5K 59 C3 C6 46

52 51 88 47 36 38 47 2E

8B 47 32 69 47 21 C7 47
           74 GF 41 81 FE 66 61
1PDØ:
       ØG
                                                                  41 33 D2 D1 E0 D1 D2
27 EB 04 C6 46 93 28
1FE0:
       01
        03
LFF0:
                                                                  u..G.... .G2.G!.G
           13 89 47 0E N9 01 00
2000:
       75
                                                                  ‡.....G. ....G2...
                                    91 99 8B 47 32 E8 A5 FF
        23 00 00 EB 14 C7 47 GE
2010:
                                                                  .WI.G1.0 0 .....4
                                    30 84 1A 8B D3 83 C2 34
        89 57 21 89.47 23 8B 4F
2920:
                                    21 32 E4 59 5A C3 3B 47
                                                                  .1...E.. 12.YZ.;G
        CD 21 8B D3 BA 66 83 CD
2030:
                                                                  2u.3..P. G%..t...
                                   47 25 84 CØ 74 ØC E8 A3
FF C3 88 47 25 58 89 47
        32 75 83 33 CØ C3 58 8A
2040:
                                                                  ...t.X.. ...G%X.G
        FP 85 CØ 74 Ø5 58 BR FF
2050:
                                    33 CØ B9 47 3Ø C3 8B 46
                                                                  2; F.r.t. 3..GG..F
        32 3B 46 06 72 13 74 06
2060:
                                                                  ..GA..u. ..G..GA.
                                    C3 8B 47 2E 89 47 36 E8
        Ø8 89 47 30 85 CØ 75 Ø7
2070:
                                                                  1.......
                                    EC 8B 76 12 81 86 6F 80
        6C FF C3 55 83 EC 0C 8B
2080:
                                    D1 E7 8B 9D 88 03 8A 07
        83 FE 0D 74 OB 8B 7F 10
2090:
                                    PR 01 75 03 E9 P5 00 83
                                                                  ..u.... ..u....
              75 03 E9 AA 00 83
20 A0:
        85 F6
                                    FE 04 75 03 EB 4C 90 83
                                                                  .u.q...u.L.
        FE 02 75 03 E9 71 02 83
20B0:
                                                                  .u.f...u...
                                    FE 08 75 03 R9 A8 00 83
        PE 05 75 03 EB 66 90 83
20C0:
                                    FE BR 75 OC EB 24 90 83
20D0:
        FE 0D 75 03 EB 1C 90 83
                                                                  ..1.3... _....u.3.
                                    B8 FF FF EB F2 B8 01 00
        C4 8C 5D C3 33 C8 E8 F7
20 EØ :
                                    7E 10 DL E7 89 85 88 93
        EB ED 8B 5E 14 8B 07 8B
20F0:
                                    EB DA AB 80 75 LC 33 CO
        EB E2 53 E8 AD 05 8B E5
2100:
                                                                  .G(.G&.G %...G2.G
                                    25 F7 DØ 89 47 32 BB 47
47 2C EB BB AB 80 75 1F
        89 47 28 89 47 26 88 47
2110:
                                                                   ..Ġ*.G.. G,...u.
        10 89 4.7 2A 8B 47 12 89
2120:
                                                                  3..C%..t .....t.
                                    68 E8 B8 FE 85 C0 74 61
        33 C9 8A 47 25 84 CF 74
2130:
                                                                  A....!. .u...u..
...u.. .E.;G,r.
                                    CG 75 9D 85 C9 75 99 EB
        41 BB D3 B4 19 CD 21 84
2140:
                                    8B 45 62 3B 47 2C 72 6C
        93 A8 80 75 93 8B 7E 14
75 86 8B 0D 3B 4F 2A 76
2150:
                                                                  83 E9 7C FF 8B 6D 89 47
2160:
                                    80 75 26 HH 78 14 F7 46
                                                                  (.0s.m...us.
        28 89 4F 26 E9 6D FF A8
12 00 01 75 0E 8B 47 28
2170:
                                                                   ...u..G( .R..G&..
                                    89 45 82 88 47 26 89 05
2180:
                                                                   .Q..G,.E ..G*...C
                                    82 8B 47 2A 89 85 E9 43
        E9 51 FF 8B 47 2C 89 45
2198:
                                                                   x .|.F. ..t..g..
                                    PC 80 76 14 80 9C 85 C9
        PF E9 44 FF A8 80 74 5F
21 AØ:
                                    99 91 74 1C HA 67 03 84
        78 20 8B 7C 04 27 46 12
2180:
        E4 74 0F E3 05 CD 21 AA
12 FF E9 18 FF E9 10 FF
F1 CD 21 3C 0D 75 17 B2
E4 74 02 CD 21 2B 7C 04
                                    R2 FB 8B 6C 89 4C 02 E9
                                                                   .t...!. .........
 21C0:
                                    E3 FU HA 67 H1 H4 E4 74
GA HB 15 47 HA 67 H2 84
                                                                   21DØ:
 21 EØ:
                                                                   89 7C 02 E9 E6 PE 3C 1A
 21F0:
        74 DØ AA E2 DC EB C3 8B
74 CØ 8B 47 28 8B 57 26
                                    76 14 8B BC H5 C9 78 C5
                                                                   t.....
 2200:
                                                                   t..G(.W& ....
                                    -93-D1-15-00-00-3B-47-2C
```



```
r.u.;W*v ..0*+06.
       72 0D 75 05 3B 57 2A 76
4C 02 8B 47 28 8B 57 26
                                  06 8B 4F 2A 2B 4F 26 89
2220:
                                                               L..G'(.W& .]..|...
.F..G,.W *.L..F..
                                  ES 50 FD 8B 7C 04 8B F2
2230:
                                  2A R8 4C FD 89 46 06 89
       89 46 84 8B 47 2C 8B 57
2240:
                                                                85 CH 75 4A 8H 47 2E C7
       56 08 8B 46 04 E8 RG FD
2250:
                                                               r...+.;.
                                                                         -.+..N..
                                  78 07 28 CB 89 4E UA BB
       46 8A 88 88 2B C6 3B C8
2260:
                                                                ....4. ..n...3.
                                  A4 8B 4E BA E3 87 33 F6
2270:
       C8 W3 F3 83 C6 34 FC F3
                                                                .F....WE .G(.V.....
                                  BB 47 28 88"76 14 88 4C
       FF 46 84 EB CD 8B 57 26
2280:
                                                                ......W 6.G(.F..
                                  26 89 47 28 F7 46 12 90
FE C6 46 02 00 8B 47 2A
       82 83 01 15 08 80 89 57
01 74 86 E9 3K FR R9 3F
3B 47 26 75 88 8B 47 2C
2290:
                                                                .t..>..? ..F...G
2210:
                                  3B 47 28 74 1A BB 47 28
                                                               ;G£0..G, ;G(t..G(
2200:
                                  E8 73 ED 85 CB 75 D7 83
                                                               .W&..... .s...u..
       8B 57 26 E8 D2 FC 8B F2
22C0:
       C6 34 8A 00 88 46 82 8B 76 14 8B 4C 02 8B 74 84 8B FR 33 D2 FC E3 2C AC 49 3C 1A 74 2F 3C 8D 75
                                                               .4...F.. v........
22D0:
                                                               ...... IC.t/C.u
      8B FR 33 D2 FC E3 2C AC
OR E3 8F AC 42 49 3C 8A
22E0:
                                                               ....BIC. t.NJA...
                                  74 05 4E 4A 41 NO HD AA
22 PØ:
                                  83 47 26 61 83 57 28 60
       EB E3 80-7E 02 0A 75 0A
2300:
                                                                ...v.)T ....v.+
                                 92 E9 C8 ED 8B 76.14 2B
       BO OA AA 8B 76 14 29 54
2310:
       7C 84 89 7C 82 E9 HC FD A8 89 74 47 88 7E 14 8B
                                                               |..|... .. tG.
2320:
                                                               ..u..F.. .t..g...
       ØD 8B 75 84 F7 46 12 88
                                 01 74 18 BA 67 84 B4 R4
2330:
                                  21 E2 F9 8H 0H H9 4D 02
                                                               t....F. !....M.
       74 09 E3 07 BA 14 46 CD
2348:
                                 84 E4 74 EF 8A 14 46 B0
                                                               .......
       E9 91 FD E3 F6 8A 67 92
2350:
                                                               ..u....! ...!...
                                B2 OA CO 21 E2 EE EB DB
       FA BA 75 86 B2 80 CD 21
2360:
                                                               .u..v... ..x.t..F
                                 85 C9 78 E4 74 CD C6 46
          75 FD 8B 76 14 8B 0C
       F:9
2370:
                                  47 28 88 57 26 E8 88 FC
                                                               ...P.... G(.W&...
       02 00 C7 46 00 00 00 BB
2380:
                                  8B 57 2A EB FA FB 89 46
                                                               .F....G, .W*....F
       89 46 84 8B FA BB 47 2C
2390:
                                                               ..v..t.. F.....u
                                  46 64 ER 91 FC 85 CB 75
       86 89, 56, 08 8B 74 04 8B
23AU:
                                                               ..G%..G. .E...+.;
                                 C7 46 0A 00 00 2B C7 3B
       BP C6 47 25 01 BB 47 2E
2300:
                                 88 CB 03 FB B3 C7 14 FC
       C8 7E 07 2B C8 89 4E. 0A
23C0:
                                  A4 8B 4E GA E3 40 33 FF
                                                               .F...t...N..@3.
       F7 46 12 88 81 74 1C F3
                                                               .F..G2; F .r..G..G

Ø...C.u. -..t.N.

.F..F...F...N.
2300:
                                  06 72 BC 8B 47 2E 89 47
       PF 46 U4 8B 47
                      32 38 46
23E0:
                                  80 7R 02.00 74 09 4E BO
       38 EB 84 AC 30 8A 75 BE
23FØ:
       GD EF 46 UU FE 46 UA AA
R3 UC 2B FB H3 RF 14 1B
                                  88 46 82 E2 E6 8B 4E 8A
2400:
                                 7E 2E 74 C2 EB 89 BB 57
                                                               ..+...4; ..t....W
2410:
                                                               6.G(.v.. ..N......
                                  BC 83 4E 80 89 4C 82 83
       26 BB 47 28 BB 76 14 BB
2420:
                                                               ....WS. G(;G,r.u
.;W*v..W *.G,.I..
                                  47 28 38 47 2C 72 1A 75
       DL 15 80 80 89 57 26 89
2430:
                                  2A 89 47 2C RB 49 FB 85
       05-38 57 2A-76 L3 89 57
2440:
                                  38 E9 88 FC E9 89 FC 55
                                                               .u..w..w 0.....U
       D2 75 03 BB 57 2E H9 57
2450:
                                                               .....>. ..u*.6..
       83 EC 86 8B EC 83 3E AB
                                 03 00 75 2A FF 36 N4 02
2460:
                                  A8 63 75 68 BB PP FP 83
                                                               .k..... ......
       E8 6B 02 8B K5 85 CU A3
2478:
                                                               ......
                                 PO BB 1C AT AA 83 89 LE
       C4 06 50 C3 A1 AB 03 BB
2480:
                                 9A 00 75 08 08 PF FF 83
       AE 03 89 1E AC 03 83 7E
2498:
                                                               .....F.@ @H..;...
                                  40 48 DI E8 3B 06 AR 03
       C4 96 5D C3 HB 46 UA 40
24 10:
                                                               83 C4 H6 SD CT HB 46 82
       89 46 02 76 08 BB FF FF
2480:
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24C0:
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24D0:
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       03 88 1E AC 03 A3 AA 03
24 EØ:
                                 1E BA 1C 30 PF 85 0B 89
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24 F0:
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2530:
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2540:
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Figure 7



What is claimed is:

 A method of distributing software via an electronic communications network from a central facility with storage capacity for a library of available programs to a plurality of users' computers such that each distributed copy is usable only on specific user hardware, comprising the steps of

responding to a specific user request for a specific software program by generating a unique index code and preparing a unique user copy by encrypting selected passages of said program in a manner such that a given algorithm operating on said encrypted passage and a key specified by said index code will yield the plaintext version of said passage,

electronically transmitting said index code and said program with encrypted passages to the user,

registering the index code in an independent auxiliary device interconnected with the user's computer,

storing the transmitted program with encrypted passages in the user's computer system on user selected media,

when running the program with the encrypted passages on the user's computer, suspending normal execution at each encrypted passage and decrypting the encrypted passage by means of the auxiliary device by algorithmically combining the key specified by said index code with the encrypted passage and returning plaintext to said user's computer, and

continuing normal execution until encountering another encrypted passage,

whereby each user gets a different copy of the same program but no user ever has a complete plaintext version residing at any given time in the user's system memory so that each program copy is wedded to a specific user's auxiliary device.

2. The method of claim 1, further comprising the step



issuing differentiated independent auxiliary devices to said users having unique decryption master codes recorded at the central facility,

before preparing software for delivery, identifying the user's independent auxiliary device and looking up its decryption master code.

then preparing the unique copy by encrypting passages of the user selected program in a manner such that a given algorithm operating on (1) a key produced by a combination of the index code and the user's master code and (2) the encrypted passage will yield a plaintext version of the passage.

3. The method of claim 1, further comprising automatically removing the index code from the independent auxiliary device upon the occurrence of a predetermined condition.

whereby the user's copy of the program is automatically disabled, for example, after a predetermined time interval.

- 4. The method of claim 2, wherein said issuing step includes factory loading each independent auxiliary device with a different decryption master code and recording each such master code at the central facility.
- 5. The method of claim 2, wherein the issuing step includes selecting the decryption master codes at the central facility after distribution of the independent auxiliary devices to the users and electronically transmitting a unique master code to each of the independent auxiliary devices upon its initial request for software.
- 6. The method of claim 5, wherein the step of electronically transmitting the decryption master code includes transmitting an encrypted version of the master code and



decrypting the master code before storing it in the independent auxiliary device.

- 7. The method of claim 1, wherein at least some of the encrypted passages of the program are software instructions themselves.
- 8. The method of claim 1, further comprising the step of scrambling the order of the modules in the user's copy before transmission to frustrate comparison with the original version of the program.
- 9. A software protection processor for an end user computer comprising

means for storing a unique package encryption key (PEK),

means for receiving and storing a registration index number (RIN) uniquely associated with a specific software program to be stored in the end user's computer system,

logic means for modifying the PEK with the RIN to produce a specific decryption key,

computer means responsive to the presentation of encrypted data by the user's computer for decrypting said data by algorithmically combining it with the specific decryption key to produce a decrypted data output to said user's computer during program execution by the user's computer,

whereby a unique copy of software chosen by the user can be prepared by a central facility by encrypting selected passages of the software in a manner such that they can be decrypted by the software protection processor by algorithmically combining them with a decryption key produced by modifying the PEK with the RIN so that the user's copy will not run properly unless his computer is connected to a software protection processor with a correct PEK and RIN.



10. The apparatus of claim 9, further comprising means for disabling the software specific RIN upon the occurrence of a predetermined condition,

whereby the selected software is disabled after, for example, a predetermined trial period or rental term.

11. A data security apparatus for a user's computer having a communications link with a central computing facility, comprising

an independent auxiliary device electronically separate from but connected to the user's computer including

means for storing a unique first code,

means for receiving via said communications link a second unique code,

means for modifying said first code with said second code to produce a third code,

means responsive to the presentation of encrypted data for decrypting said data by algorithmically combining it with said third code,

whereby data presented over the communications link as an encrypted password, for example, or by the user's computer can be decrypted for verification.

- 12. The apparatus of claim 11, further comprising means for disabling said second code after a predetermined usage interval.
- 13. A software distribution system for distributing software from a central facility to a plurality of users' computers such that each distributed copy is usable only with a specific user's auxiliary device, comprising the steps of

generating a unique index ∞ de,

preparing a unique user copy of a selected software program by encrypting selected passages of said program in a



manner such that a given algorithm operating on said encrypted passage and a key specified by said index code will yield the plain text version of said passage,

providing an auxiliary device in which said index code can be registered, designed to be interconnected with the user's computer, such that when running the program with the encrypted passages, normal execution is suspended at each encrypted passage and the encrypted passage is decrypted by the auxiliary device by algorithmically combining the key specified by said index code with the encrypted passage and returning plain text to said user's computer such that there is never a complete plain text version of the software program resident in the user's system memory,

whereby each user receives a different copy of the same software program which will only run with his specific auxiliary device.

14. The method of claim 13, wherein said step of providing auxiliary devices includes issuing differentiated auxiliary devices to said users having unique decryption master codes recorded at the central facility,

before preparing software for delivery, identifying the user's auxiliary device and looking up its decryption master code,

then preparing the unique copy by encrypting the passages of a selected program in a manner such that a given algorithm operating on (1) a key produced by a combination of the index code and the user's master code and (2) the encrypted passage will yield a plain text version of the passage.

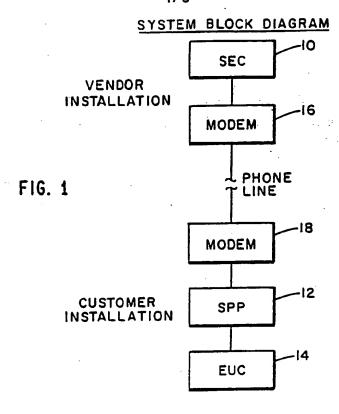
15. The method of claim 13, further comprising automatically disabling the index code in the auxiliary device upon the occurrence of a predetermined condition,

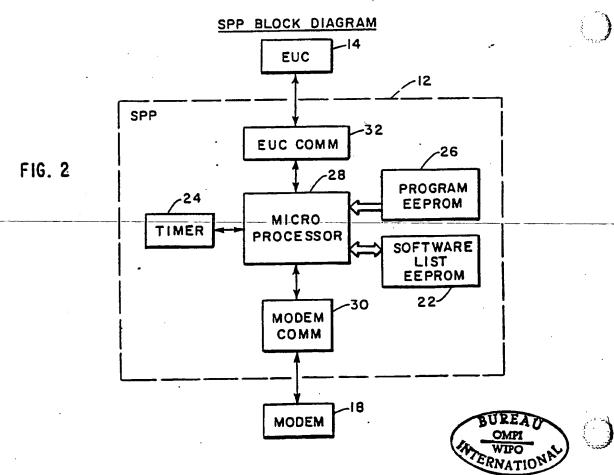
whereby the user's copy of the program is automatically disabled, for example, after a predetermined time interval.

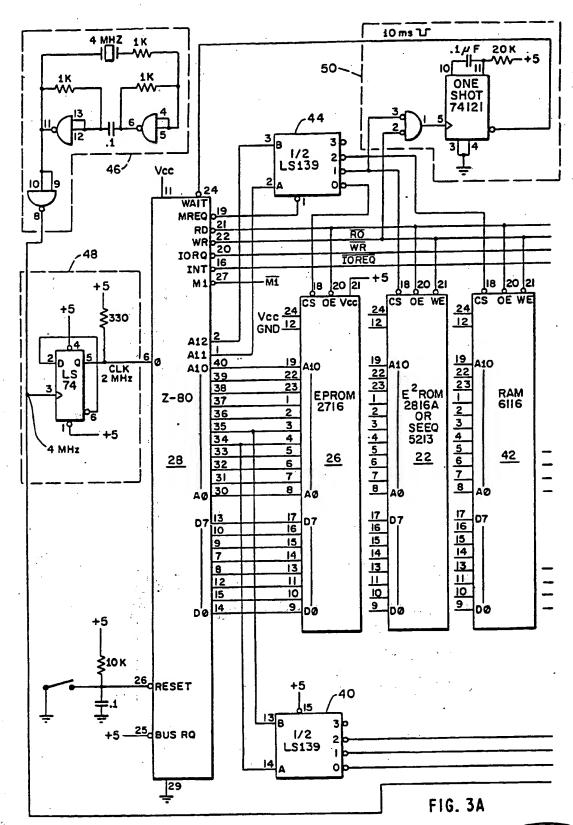
- 16. The method of claim 13, wherein at least some of the encrypted passages of the program are software instructions themselves.
- 17. The method of claim 13, further comprising the step of scrambling the order of the modules in the user's copy to frustrate comparison with another version of the program.



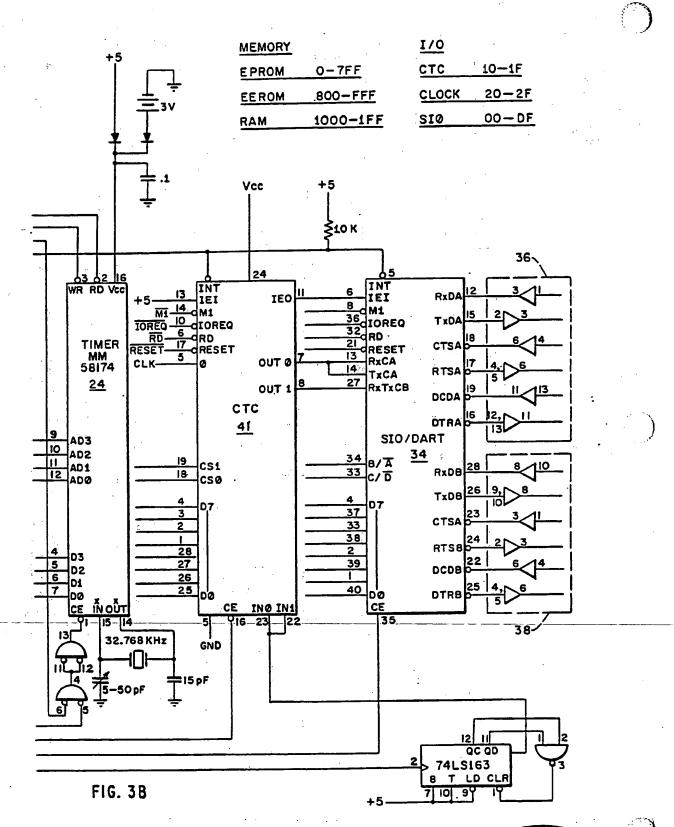
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INTERNATIONAL SEARCH REPORT

International Application No PCT/US84/01856

1. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) 3								
According to International Patent Classification (IPC) or to both National Classific. and IPC INT. C1. H04L 9/00; G01F 1/00, G06K 5/00 G96F13/06 U.S. C1. 178/22.08, 22.09, 364/200, 300; 340/825.34								
								
II. FIELDS SEARCHED Minimum Documentation Searched 4								
Classification System Classification Symbols								
U.S. 178/22.08, 22.09; 364/200, 300; 340/825.34								
Documentation Searched other than Minimum Documentation to the Extent that such Documents are included in the Fields Searched 6								
·								
III. DOCL	IMENTS CONSIDERED TO BE RELEVANT 14	•						
Category *	Citation of Document, 16 with Indication, where app	ropriste, of the relevant passages 17	Relevant to Claim No. 18					
p.	US, A, 4,471,163 Published September 1984, Donald et		1-17					
Y	US, A, 3,806,882 Published April 1974, Clarke	1 23	1-17					
p	US, A, 4,458,315 Published 1984, Uchenick	l 3 July	1-17					
Y	US, A, 3,996,449, Publishe December 1976, Attanasio e		1-17					
Y	US, A, 4,168,396 Published September 1979, Best	1 18	1-17					
P	US, A, 4,446,519 Published May 1984, Thomas	1 1	1-17					
A	US, A, 4,439,830 Published March 1984, Chueh	1 27	1-17					
Y	US, A, 4,120,030 Published 10 October 1978, Johnstone		1-17					
"A" doc con "E" earl filin "L" doc whi cita "O" doc oth "P" doc late	al categories of cited documents: 15 cument defining the general state of the art which is not sidered to be of particular relevance lier document but published on or after the international g date cument which may throw doubts on priority claim(s) or ch is cited to establish the publication date of another tion or other special reason (as specified) cument referring to an oral disclosure, use, exhibition or er means cument published prior to the international filing date but r than the priority date claimed	"T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "A" document member of the same patent family						
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	national search report has not been established in respect of certain claims under Article 17(2) (a) for in numbers, because they relate to subject matter 12 not required to be searched by this Auti	
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men	is to such an extent that no meaningful international search can be carried out 13, specifically:	
VI. OE	SERVATIONS WHERE UNITY OF INVENTION IS LACKING 11	
This Inter	national Searching Authority found multiple inventions in this international application as follows:	
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1. Asa	Il required additional search fees were timely paid by the applicant, this international search report co e international application.	vers all searchable claims
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3. No the	equired additional search fees were timely paid by the applicant. Consequently, this international sea nvention first mentioned in the claims; it is covered by claim numbers:	rch report is restricted to
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	additional search fees were accompanied by applicant's protest. protest accompanied the payment of additional search fees.	
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